



November 16, 2006

**STL Sacramento**  
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West Sacramento, CA 95605

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**STL SACRAMENTO PROJECT NUMBER: G6J200155**  
PO/CONTRACT: 129682.001/Event 104

Guy Graening  
Brown and Caldwell  
10540 White Rock Road  
Suite 180  
Rancho Cordova, CA 95670

Dear Mr. Graening,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on October 20, 2006. These samples are associated with your 21243 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4384.

Sincerely,

A handwritten signature in black ink, appearing to read "Karen Dahl".

Karen Dahl  
Project Manager

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AIR, TSP

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## CASE NARRATIVE

### STL SACRAMENTO PROJECT NUMBER G6J200155

#### AIR, PM-10

The final weight for sample P-0777 was less than the initial weight so this result was reported as 'ND'.

There were no other anomalies associated with this project.

## STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon*	CA 200005
Arizona	AZ0616	Pennsylvania	68-1272
Arkansas	04-067-0	South Carolina	87014002
California*	01119CA	Texas	TX 270-2004A
Colorado	NA	Utah*	QUAN1
Connecticut	PH-0691	Virginia	00178
Florida*	E87570	Washington	C087
Georgia	960	West Virginia	9930C, 334
Hawaii	NA	Wisconsin	998204680
Louisiana*	01944	NFESC	NA
Michigan	9947	USACE	NA
Nevada	CA44	USDA Foreign Plant	37-82605
New Jersey*	CA005	USDA Foreign Soil	S-46613
New York*	11666		

\*NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/05

## QC Parameter Definitions

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

# Sample Summary

## G6J200155

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
JGWAN	1	P-0773	10/11/2006 10:55 AM	10/20/2006 09:00 AM
JGWAW	2	P-0774	10/11/2006 11:10 AM	10/20/2006 09:00 AM
JGWA0	3	P-0775	10/11/2006 11:35 AM	10/20/2006 09:00 AM
JGWA1	4	P-0776	10/11/2006 11:00 AM	10/20/2006 09:00 AM
JGWA2	5	000545	10/11/2006 11:40 AM	10/20/2006 09:00 AM
JGWA4	6	P-0777	10/11/2006 11:05 AM	10/20/2006 09:00 AM

### Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

BROWN AND CALDWELL  
6J200155

CHAIN OF CUSTODY RECORD

Event 104 COC No. \_\_\_\_\_

✓ 3264 Goni Road / Suite 153  
Carson City, NV 89706  
775-883-4118 / FAX 775-883-5108

□ 4425 W. Spring Mountain Road / Suite 225  
Las Vegas, NV 89102  
702-938-4080 / FAX 702-938-4082

□ 201 East Washington Street / Suite 300  
Phoenix, AZ 85004  
602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Air Qlty  
PROJECT NUMBER: 121243

LINE NO.	SAMPLE - I.D.	COLLECTION		NUMBER OF SAMPLES	CONTAINER TYPE	CODE	PRESERVE	ANALYSES REQUESTED	FIELD FILTERED	QC - REQ	QC - REC	SAMPLING METHOD	DEPTH (FT.) BEGIN --- END	
		DATE	TIME											
01	P-0773	11/10	10:53 AM	1	8x10 Filter	NONE	A	PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Co,Cu,Mn,Ni), Sulfate	0.20	0.20	0.20	ASV/HRT	---	
02	P-0774	11/10	11:10	1	8x10 Filter	NONE	A	PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Co,Cu,Mn,Ni), Sulfate	0.20	0.20	0.20	ASV/HRT	---	
03	P-0775	11/10	11:35	1	8x10 Filter	NONE	A	PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Co,Cu,Mn,Ni), Sulfate	0.17	0.17	0.17	ASV/HRT	---	
04	P-0776	11/10	11:00	1	8x10 Filter	NONE	A	PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Co,Cu,Mn,Ni), Sulfate	0.32	0.32	0.32	ASV/HRT	---	
05	P-0777	11/10	11:40	1	8x10 Filter	NONE	A	TSP, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Co,Cu,Mn,Ni), Sulfate	0.33	0.33	0.33	ASV/HRT	---	
06	P-0778	11/05	11:00	1	8x10 Filter	PM-10	A	PM-10	0.20	0.20	0.20	ASV/HRT	---	
07														---
08														---
09														---
10														---

RECEIVED & RELEASED BY: DATE TIME COOLER I.D.: COMMENTS (see note on back):

RECEIVED BY: DATE TIME RELINQUISHED BY: DATE TIME  
L. Chang Head 10/22/04 10/22/04

RECORD RETURNED BY:

COURIER: FEDEX DATE TIME SHIPMENT NUMBER: 798024085862  
DISTRIBUTION: WHITE - PROJECT FILE • CANARY - LAB RECEIPT • PINK - DATA MANAGEMENT • GOLDENROD - FIELD  
USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK.

SEVERN  
TRENT

STL

LOT RECEIPT CHECKLIST  
STL Sacramento

CLIENT Brown & Caldwell PM 12 LOG # 41784

LOT# (QUANTIMS ID) G6J200155 QUOTE# 62684 LOCATION AC

DATE RECEIVED 10/20/06 TIME RECEIVED 0900 Initials CD Date 10/20/06

DELIVERED BY  FEDEX  CA OVERNIGHT  CLIENT  
 AIRBORNE  GOLDENSTATE  DHL  
 UPS  BAX GLOBAL  GO-GETTERS  
 STL COURIER  COURIERS ON DEMAND  
 OTHER

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) \_\_\_\_\_

SHIPPING CONTAINER(S)  STL  CLIENT  N/A

TEMPERATURE RECORD (IN °C) IR 1  3  OTHER NA

COC #(S) \_\_\_\_\_

TEMPERATURE BLANK Observed: \_\_\_\_\_ Corrected: ↓

SAMPLE TEMPERATURE,

Observed: ambient Average: \_\_\_\_\_ Corrected Average: \_\_\_\_\_

COLLECTOR'S NAME:  Verified from COC  Not on COC

pH MEASURED  YES  ANOMALY  N/A

LABELED BY \_\_\_\_\_

LABELS CHECKED BY \_\_\_\_\_

PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

Clouseau  TEMPERATURE EXCEEDED (2 °C – 6 °C)\*<sup>1</sup>  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED

PM NOTIFIED

Notes: \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is <4°C.

Lot

ID:

G6J200155

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
"CT																				
Encore																				
Folder/filter	/	/	/	/	/	/														
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid   s = sulfuric acid   na = sodium hydroxide

n = nitric acid

zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

# AIR, 6020, Metals

Brown and Caldwell

Client Sample ID: P-0773

TOTAL Metals

Lot-Sample #...: G6J200155-001

Matrix.....: AIR

Date Sampled...: 10/11/06

Date Received..: 10/20/06

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
<b>Prep Batch #...: 6305113</b>							
Aluminum	162 B	240	ug	SW846 6020		11/01-11/07/06	JGWAN1AC
		Dilution Factor: 1		MDL.....	: 120		
Arsenic	1.2 B,J	2.9	ug	SW846 6020		11/01-11/07/06	JGWAN1AD
		Dilution Factor: 1		MDL.....	: 0.89		
Cadmium	ND	1.2	ug	SW846 6020		11/01-11/07/06	JGWAN1AE
		Dilution Factor: 1		MDL.....	: 0.028		
Cobalt	ND	2.4	ug	SW846 6020		11/01-11/07/06	JGWAN1AF
		Dilution Factor: 1		MDL.....	: 2.3		
Chromium	ND	2.9	ug	SW846 6020		11/01-11/07/06	JGWAN1AG
		Dilution Factor: 1		MDL.....	: 2.3		
Copper	9.1	6.0	ug	SW846 6020		11/01-11/07/06	JGWAN1AH
		Dilution Factor: 1		MDL.....	: 1.3		
Manganese	5.1 B	6.0	ug	SW846 6020		11/01-11/07/06	JGWAN1AJ
		Dilution Factor: 1		MDL.....	: 2.0		
Nickel	1.2 B	6.0	ug	SW846 6020		11/01-11/07/06	JGWAN1AK
		Dilution Factor: 1		MDL.....	: 1.2		

**NOTE(S) :**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0774

**TOTAL Metals**

Lot-Sample #....: G6J200155-002

Matrix.....: AIR

Date Sampled...: 10/11/06

Date Received..: 10/20/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>Prep Batch #....: 6305113</b>						
Aluminum	159 B	240	ug	SW846 6020	11/01-11/07/06	JGWA1AC
		Dilution Factor: 1		MDL.....: 120		
Arsenic	1.0 B,J	2.9	ug	SW846 6020	11/01-11/07/06	JGWA1AD
		Dilution Factor: 1		MDL.....: 0.89		
Cadmium	0.035 B	1.2	ug	SW846 6020	11/01-11/07/06	JGWA1AE
		Dilution Factor: 1		MDL.....: 0.028		
Cobalt	ND	2.4	ug	SW846 6020	11/01-11/07/06	JGWA1AF
		Dilution Factor: 1		MDL.....: 2.3		
Chromium	ND	2.9	ug	SW846 6020	11/01-11/07/06	JGWA1AG
		Dilution Factor: 1		MDL.....: 2.3		
Copper	7.0	6.0	ug	SW846 6020	11/01-11/07/06	JGWA1AH
		Dilution Factor: 1		MDL.....: 1.3		
Manganese	5.2 B	6.0	ug	SW846 6020	11/01-11/07/06	JGWA1AJ
		Dilution Factor: 1		MDL.....: 2.0		
Nickel	ND	6.0	ug	SW846 6020	11/01-11/07/06	JGWA1AK
		Dilution Factor: 1		MDL.....: 1.2		

**NOTE(S) :**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0775

**TOTAL Metals**

Lot-Sample #...: G6J200155-003

Matrix.....: AIR

Date Sampled...: 10/11/06

Date Received..: 10/20/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>Prep Batch #...: 6305113</b>						
Aluminum	297	240	ug	SW846 6020	11/01-11/07/06	JGWA01AC
		Dilution Factor: 1		MDL.....: 120		
Arsenic	2.0 B,J	2.9	ug	SW846 6020	11/01-11/07/06	JGWA01AD
		Dilution Factor: 1		MDL.....: 0.89		
Cadmium	0.039 B	1.2	ug	SW846 6020	11/01-11/07/06	JGWA01AE
		Dilution Factor: 1		MDL.....: 0.028		
Cobalt	ND	2.4	ug	SW846 6020	11/01-11/07/06	JGWA01AF
		Dilution Factor: 1		MDL.....: 2.3		
Chromium	ND	2.9	ug	SW846 6020	11/01-11/07/06	JGWA01AG
		Dilution Factor: 1		MDL.....: 2.3		
Copper	26.7	6.0	ug	SW846 6020	11/01-11/07/06	JGWA01AH
		Dilution Factor: 1		MDL.....: 1.3		
Manganese	10.7	6.0	ug	SW846 6020	11/01-11/07/06	JGWA01AJ
		Dilution Factor: 1		MDL.....: 2.0		
Nickel	ND	6.0	ug	SW846 6020	11/01-11/07/06	JGWA01AK
		Dilution Factor: 1		MDL.....: 1.2		

**NOTE(S) :**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0776

**TOTAL Metals**

Lot-Sample #...: G6J200155-004

Matrix.....: AIR

Date Sampled...: 10/11/06

Date Received..: 10/20/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>Prep Batch #...: 6305113</b>						
Aluminum	171 B	240	ug	SW846 6020	11/01-11/07/06	JGWA11AC
		Dilution Factor: 1		MDL.....: 120		
Arsenic	1.1 B,J	2.9	ug	SW846 6020	11/01-11/07/06	JGWA11AD
		Dilution Factor: 1		MDL.....: 0.89		
Cadmium	0.028 B	1.2	ug	SW846 6020	11/01-11/07/06	JGWA11AE
		Dilution Factor: 1		MDL.....: 0.028		
Cobalt	ND	2.4	ug	SW846 6020	11/01-11/07/06	JGWA11AF
		Dilution Factor: 1		MDL.....: 2.3		
Chromium	ND	2.9	ug	SW846 6020	11/01-11/07/06	JGWA11AG
		Dilution Factor: 1		MDL.....: 2.3		
Copper	9.5	6.0	ug	SW846 6020	11/01-11/07/06	JGWA11AH
		Dilution Factor: 1		MDL.....: 1.3		
Manganese	4.8 B	6.0	ug	SW846 6020	11/01-11/07/06	JGWA11AJ
		Dilution Factor: 1		MDL.....: 2.0		
Nickel	1.3 B	6.0	ug	SW846 6020	11/01-11/07/06	JGWA11AK
		Dilution Factor: 1		MDL.....: 1.2		

**NOTE(S) :**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: 000545

**TOTAL Metals**

Lot-Sample #....: G6J200155-005

Matrix.....: AIR

Date Sampled...: 10/11/06

Date Received..: 10/20/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
<b>Prep Batch #....: 6305113</b>						
Aluminum	472	240	ug	SW846 6020 Dilution Factor: 1	MDL.....: 120	11/01-11/07/06 JGWA21AC
Arsenic	1.7 B,J	2.9	ug	SW846 6020 Dilution Factor: 1	MDL.....: 0.89	11/01-11/07/06 JGWA21AD
Cadmium	0.056 B	1.2	ug	SW846 6020 Dilution Factor: 1	MDL.....: 0.028	11/01-11/07/06 JGWA21AE
Cobalt	ND	2.4	ug	SW846 6020 Dilution Factor: 1	MDL.....: 2.3	11/01-11/07/06 JGWA21AF
Chromium	ND	2.9	ug	SW846 6020 Dilution Factor: 1	MDL.....: 2.3	11/01-11/07/06 JGWA21AG
Copper	48.2	6.0	ug	SW846 6020 Dilution Factor: 1	MDL.....: 1.3	11/01-11/07/06 JGWA21AH
Manganese	17.3	6.0	ug	SW846 6020 Dilution Factor: 1	MDL.....: 2.0	11/01-11/07/06 JGWA21AJ
Nickel	ND	6.0	ug	SW846 6020 Dilution Factor: 1	MDL.....: 1.2	11/01-11/07/06 JGWA21AK

**NOTE(S) :**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

# QC DATA ASSOCIATION SUMMARY

G6J200155

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AIR	SW846 6020		6305113	
002	AIR	SW846 6020		6305113	
003	AIR	SW846 6020		6305113	
004	AIR	SW846 6020		6305113	
005	AIR	SW846 6020		6305113	

## METHOD BLANK REPORT

## TOTAL Metals

Client Lot #....: G6J200155

Matrix.....: AIR

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>			<u>PREPARATION-</u>	<u>WORK</u>
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>ANALYSIS DATE</u>	<u>ORDER #</u>
<b>MB Lot-Sample #: G6K010000-113 Prep Batch #....: 6305113</b>						
Aluminum	ND	240	ug	SW846 6020	11/01-11/07/06	JHM8C1AA
Dilution Factor: 1						
<b>Arsenic</b>	<b>0.91 B</b>	<b>2.9</b>	<b>ug</b>	<b>SW846 6020</b>	<b>11/01-11/07/06</b>	<b>JHM8C1AC</b>
Dilution Factor: 1						
Cadmium	ND	1.2	ug	SW846 6020	11/01-11/07/06	JHM8C1AD
Dilution Factor: 1						
Chromium	ND	2.9	ug	SW846 6020	11/01-11/07/06	JHM8C1AF
Dilution Factor: 1						
Cobalt	ND	2.4	ug	SW846 6020	11/01-11/07/06	JHM8C1AE
Dilution Factor: 1						
Copper	ND	6.0	ug	SW846 6020	11/01-11/07/06	JHM8C1AG
Dilution Factor: 1						
Manganese	ND	6.0	ug	SW846 6020	11/01-11/07/06	JHM8C1AH
Dilution Factor: 1						
Nickel	ND	6.0	ug	SW846 6020	11/01-11/07/06	JHM8C1AJ
Dilution Factor: 1						

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

**LABORATORY CONTROL SAMPLE DATA REPORT**

**TOTAL Metals**

**Lot-Sample #....: G6J200155**

**Matrix.....: AIR**

<u>PARAMETER</u>	SPIKE	MEASURED		PERCNT			<u>METHOD</u>	PREPARATION-	PREP
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>UNITS</u>	<u>RECVRY</u>	<u>RPD</u>	<u>ANALYSIS DATE</u>	<u>BATCH #</u>		
Aluminum	1200	1310	ug	110		SW846 6020	11/01-11/07/06	6305113	
	1200	1280	ug	107	2.4	SW846 6020	11/01-11/07/06	6305113	
Dilution Factor: 1									
Arsenic	240	218	ug	91		SW846 6020	11/01-11/07/06	6305113	
	240	214	ug	89	1.9	SW846 6020	11/01-11/07/06	6305113	
Dilution Factor: 1									
Cadmium	240	216	ug	90		SW846 6020	11/01-11/07/06	6305113	
	240	209	ug	87	3.4	SW846 6020	11/01-11/07/06	6305113	
Dilution Factor: 1									
Chromium	240	214	ug	89		SW846 6020	11/01-11/07/06	6305113	
	240	209	ug	87	2.1	SW846 6020	11/01-11/07/06	6305113	
Dilution Factor: 1									
Cobalt	240	215	ug	90		SW846 6020	11/01-11/07/06	6305113	
	240	210	ug	88	2.4	SW846 6020	11/01-11/07/06	6305113	
Dilution Factor: 1									
Copper	240	227	ug	95		SW846 6020	11/01-11/07/06	6305113	
	240	224	ug	93	1.3	SW846 6020	11/01-11/07/06	6305113	
Dilution Factor: 1									
Manganese	240	224	ug	94		SW846 6020	11/01-11/07/06	6305113	
	240	226	ug	94	0.54	SW846 6020	11/01-11/07/06	6305113	
Dilution Factor: 1									
Nickel	240	232	ug	97		SW846 6020	11/01-11/07/06	6305113	
	240	229	ug	96	1.3	SW846 6020	11/01-11/07/06	6305113	
Dilution Factor: 1									

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

**LABORATORY CONTROL SAMPLE EVALUATION REPORT**

**TOTAL Metals**

**Lot-Sample #....: G6J200155**

**Matrix.....: AIR**

<u>PARAMETER</u>	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-	PREP-
						<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Aluminum	110	(75 - 125)			SW846 6020	11/01-11/07/06	6305113
	107	(75 - 125)	2.4	(0-20)	SW846 6020	11/01-11/07/06	6305113
		Dilution Factor: 1					
Arsenic	91	(75 - 125)			SW846 6020	11/01-11/07/06	6305113
	89	(75 - 125)	1.9	(0-20)	SW846 6020	11/01-11/07/06	6305113
		Dilution Factor: 1					
Cadmium	90	(75 - 125)			SW846 6020	11/01-11/07/06	6305113
	87	(75 - 125)	3.4	(0-20)	SW846 6020	11/01-11/07/06	6305113
		Dilution Factor: 1					
Chromium	89	(75 - 125)			SW846 6020	11/01-11/07/06	6305113
	87	(75 - 125)	2.1	(0-20)	SW846 6020	11/01-11/07/06	6305113
		Dilution Factor: 1					
Cobalt	90	(75 - 125)			SW846 6020	11/01-11/07/06	6305113
	88	(75 - 125)	2.4	(0-20)	SW846 6020	11/01-11/07/06	6305113
		Dilution Factor: 1					
Copper	95	(75 - 125)			SW846 6020	11/01-11/07/06	6305113
	93	(75 - 125)	1.3	(0-20)	SW846 6020	11/01-11/07/06	6305113
		Dilution Factor: 1					
Manganese	94	(75 - 125)			SW846 6020	11/01-11/07/06	6305113
	94	(75 - 125)	0.54	(0-20)	SW846 6020	11/01-11/07/06	6305113
		Dilution Factor: 1					
Nickel	97	(75 - 125)			SW846 6020	11/01-11/07/06	6305113
	96	(75 - 125)	1.3	(0-20)	SW846 6020	11/01-11/07/06	6305113
		Dilution Factor: 1					

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

AIR, 9056, Sulfate

Brown and Caldwell

Client Sample ID: P-0773

General Chemistry

Lot-Sample #...: G6J200155-001      Work Order #...: JGWAN      Matrix.....: AIR  
Date Sampled...: 10/11/06      Date Received...: 10/20/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Sulfate	1.1 J	0.48	mg	SW846 9056	11/02-11/03/06	6310296
		Dilution Factor: 12			MDL.....	: 0.048

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analytic at a reportable level.

Brown and Caldwell

Client Sample ID: P-0774

General Chemistry

Lot-Sample #....: G6J200155-002      Work Order #....: JGWAW      Matrix.....: AIR  
Date Sampled....: 10/11/06      Date Received...: 10/20/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Sulfate	1.0 J	0.48	mg	SW846 9056	11/02-11/03/06	6310296
		Dilution Factor: 12		MDL.....: 0.048		

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0775

General Chemistry

Lot-Sample #....: G6J200155-003      Work Order #....: JGWA0      Matrix.....: AIR  
Date Sampled....: 10/11/06      Date Received...: 10/20/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Sulfate	1.1 J	0.48	mg	SW846 9056	11/02-11/03/06	6310296
		Dilution Factor: 12			MDL.....	: 0.048

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0776

General Chemistry

Lot-Sample #...: G6J200155-004      Work Order #...: JGWAl      Matrix.....: AIR  
Date Sampled...: 10/11/06      Date Received..: 10/20/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Sulfate	1.1 J	0.48	mg	SW846 9056	11/02-11/03/06	6310296
		Dilution Factor: 12			MDL.....	: 0.048

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: 000545

General Chemistry

Lot-Sample #...: G6J200155-005      Work Order #...: JGWA2      Matrix.....: AIR  
Date Sampled...: 10/11/06      Date Received...: 10/20/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Sulfate	1.4 J	0.48	mg	SW846 9056	11/02-11/03/06	6310296
		Dilution Factor: 12		MDL.....	.....: 0.048	

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

# QC DATA ASSOCIATION SUMMARY

G6J200155

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AIR	SW846 9056		6310296	
	AIR	CFR50J APDX J		6304299	
002	AIR	SW846 9056		6310296	
	AIR	CFR50J APDX J		6304299	
003	AIR	SW846 9056		6310296	
	AIR	CFR50J APDX J		6304299	
004	AIR	SW846 9056		6310296	
	AIR	CFR50J APDX J		6304299	
005	AIR	CFR50B APDX B		6304297	
	AIR	SW846 9056		6310296	
006	AIR	CFR50J APDX J		6304299	

## METHOD BLANK REPORT

## General Chemistry

Client Lot #...: G6J200155

Matrix.....: AIR

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	PREP
		LIMIT	UNITS				
Sulfate	0.12 B	Work Order #:	JH2501AA	MB Lot-Sample #:	G6K060000-296	11/02-11/03/06	6310296
		0.48	mg	SW846 9056			
		Dilution Factor: 12					

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

## LABORATORY CONTROL SAMPLE DATA REPORT

## General Chemistry

Lot-Sample #....: G6J200155

Matrix.....: AIR

PARAMETER	SPIKE	MEASURED		PERCNT			METHOD	PREPARATION-	PREP
	AMOUNT	AMOUNT	UNITS	RECVRY	RPD				
Sulfate		WO#: JH2501AC-LCS/JH2501AD-LCSD						LCS	Lot-Sample#: G6K060000-296
	4.80	4.91	mg	102		SW846	9056	11/02-11/03/06	6310296
	4.80	4.81	mg	100	2.0	SW846	9056	11/02-11/03/06	6310296
	Dilution Factor: 1								

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Lot-Sample #....: G6J200155

Matrix.....: AIR

PARAMETER	PERCENT	RECOVERY	RPD				PREPARATION- ANALYSIS DATE	PREP BATCH #
	RECOVERY	LIMITS	RPD	LIMITS	METHOD			
Sulfate		WO#:JH2501AC-LCS/JH2501AD-LCSD		LCS	Lot-Sample#:	G6K060000-296		
	102	(85 - 115)		SW846 9056		11/02-11/03/06	6310296	
	100	(85 - 115) 2.0 (0-15)		SW846 9056		11/02-11/03/06	6310296	
		Dilution Factor: 1						

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

# AIR, PM-10 & TSP

Brown and Caldwell

Client Sample ID: P-0773

General Chemistry

Lot-Sample #...: G6J200155-001      Work Order #...: JGWAN      Matrix.....: AIR  
Date Sampled...: 10/11/06      Date Received..: 10/20/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Particulate Matter as PM10	0.0079	0.0001	g	CFR50J APDX J	10/24-10/26/06	6304299

Brown and Caldwell

Client Sample ID: P-0774

General Chemistry

Lot-Sample #....: G6J200155-002      Work Order #....: JGWAW      Matrix.....: AIR  
Date Sampled....: 10/11/06      Date Received...: 10/20/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Particulate Matter as PM10	0.0055	0.0001	g	CFR50J APDX J	10/24-10/27/06	6304299

Brown and Caldwell

Client Sample ID: P-0775

General Chemistry

Lot-Sample #...: G6J200155-003      Work Order #...: JGWA0      Matrix.....: AIR  
Date Sampled...: 10/11/06      Date Received..: 10/20/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Particulate Matter as PM10	0.0131	0.0001	g	CFR50J APDX J	10/24-10/27/06	6304299

Brown and Caldwell

Client Sample ID: P-0776

General Chemistry

Lot-Sample #...: G6J200155-004      Work Order #...: JGWA1      Matrix.....: AIR  
Date Sampled...: 10/11/06      Date Received..: 10/20/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP	BATCH #
					ANALYSIS DATE		
Particulate Matter as PM10	0.0083	0.0001	g	CFR50J APDX J	10/24-10/26/06		6304299

Brown and Caldwell

Client Sample ID: 000545

**General Chemistry**

Lot-Sample #...: G6J200155-005      Work Order #...: JGWA2      Matrix.....: AIR  
Date Sampled...: 10/11/06      Date Received...: 10/20/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Total Suspended Particulates	0.0251	0.0001	g	CFR50B APDX B	10/24-10/27/06	6304297

Brown and Caldwell

Client Sample ID: P-0777

General Chemistry

Lot-Sample #...: G6J200155-006      Work Order #...: JGWA4      Matrix.....: AIR  
Date Sampled...: 10/11/06      Date Received...: 10/20/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Particulate Matter as PM10	ND	0.0001	g	CFR50J APDX J	10/24-10/26/06	6304299

AIR, 6020, Metals

## **Raw Data Package**

**ICPMS**

SEVERN  
TRENT

STL

STL Sacramento  
ICP-MS Data Review Checklist  
Level I and Level II

Instrument ID (Circle one): <b>M01</b> <b>M02</b>		Method 6020 SOP SAC-MT-0001		
File Number <b>061107A1</b>	Batch Numbers <b>6305113, 6298106, 6311238</b>	Date <b>11/7/06</b>	Analyst <b>BRJ</b>	
Lot Numbers <b>G6J 200154, G6J 200155, G6J 130136, G6J 050368, G6J 060393</b>			YES	NO
1. Copy of analysis protocol used included?			✓	
2. ICVs & CCVs within 10% of true value or recal and rerun?			✓	
3. ICB & CCBs < reporting limit or recal and rerun?			✓	
4. 10 samples or less analyzed between calibration checks?			✓	
5. All parameters within linear range?			✓	
6. LCS/LCSD within limits?			✓	
7. Prep blank value < reporting limit or all samples >20x blank?			✓	
8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <130% of the Calibration Blank intensities?			✓	
9. Appropriate dilution factors applied to data?			✓	
10. Matrix spike and spike dup within customer defined limits?				✓
11. Each batch checked for presence of internal standard in samples?			✓	✓
12. Anomalies entered using Clouseau?				✓

COMMENTS:

REVIEWED BY: **MBL**  
DATE: **11/10/06**DATA ENTERED BY: **BRJ**  
DATE: **11/9/06**

# Dataset Report

Perkin Elmer ICPMS M01

SOP No. SAC-MT-0001

Method 6020

User Name: JonesB

Computer Name: SACP317A

Dataset File Path: C:\elandata\Dataset\061107a1\

Report Date/Time: Wednesday, November 08, 2006 13:36:21

## The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	TUNE BVOTAW	15:20:06 Tue 07-Nov-06	Sample	Auto Lens Calib
	DAILY BVOTAW	15:23:14 Tue 07-Nov-06	Sample	
	DAILY BVOTAW	15:28:38 Tue 07-Nov-06	Sample	
6305113	JGV93 N.I.	16:04:36 Tue 07-Nov-06	Sample	G6J200154-1 N.I.
6305113	JGWAN N.I.	16:07:28 Tue 07-Nov-06	Sample	G6J200155-1 N.I.
6298106	JGC8V N.I.	16:10:23 Tue 07-Nov-06	Sample	G6J130136-1 N.I.
6311238	JFR1W N.I.	16:13:17 Tue 07-Nov-06	Sample	G6J050368-1 N.I.
	Rinse 3X	17:02:52 Tue 07-Nov-06	Sample	
	Blank	17:07:01 Tue 07-Nov-06	Blank	
	Standard 1	17:11:05 Tue 07-Nov-06	Standard #1	
	ICV	17:14:55 Tue 07-Nov-06	Sample	
	ICB	17:18:48 Tue 07-Nov-06	Sample	
	LL-STD 10X	17:24:40 Tue 07-Nov-06	Sample	Low Level Std 10X
	ICSA	17:30:51 Tue 07-Nov-06	Sample	
	ICSAB	17:34:42 Tue 07-Nov-06	Sample	
	Rinse	17:38:35 Tue 07-Nov-06	Sample	
	CCV 1	17:42:30 Tue 07-Nov-06	Sample	
	CCB 1	17:46:23 Tue 07-Nov-06	Sample	
	CCV 2	17:50:17 Tue 07-Nov-06	Sample	
	CCB 2	17:54:11 Tue 07-Nov-06	Sample	
6305113	JHM8CC	17:58:03 Tue 07-Nov-06	Sample	G6K010000-113 LCS
6305113	JHM8CL	18:01:52 Tue 07-Nov-06	Sample	G6K010000-113 LCSD
6298106	JG6NQC	18:05:41 Tue 07-Nov-06	Sample	G6J250000-106 LCS
6298106	JG6NQL	18:09:31 Tue 07-Nov-06	Sample	G6J250000-106 LCSD
	Rinse	18:13:24 Tue 07-Nov-06	Sample	
6305113	JHM8CB	18:17:18 Tue 07-Nov-06	Sample	G6K010000-113 BLK
6298106	JG6NQB	18:21:12 Tue 07-Nov-06	Sample	G6J250000-106 BLK
6305113	JGV93	18:25:03 Tue 07-Nov-06	Sample	G6J200154-1
6305113	JGV93P5	18:28:53 Tue 07-Nov-06	Sample	G6J200154-1 5X
6305113	JGV93Z	18:32:43 Tue 07-Nov-06	Sample	G6J200154-1 PS
	CCV 3	18:36:35 Tue 07-Nov-06	Sample	
	CCB 3	18:40:29 Tue 07-Nov-06	Sample	
	CCV 4	18:44:23 Tue 07-Nov-06	Sample	
	CCB 4	18:48:17 Tue 07-Nov-06	Sample	
6305113	JGV97	18:52:10 Tue 07-Nov-06	Sample	G6J200154-2
6305113	JGV98	18:56:01 Tue 07-Nov-06	Sample	G6J200154-3
6305113	JGWAA	18:59:51 Tue 07-Nov-06	Sample	G6J200154-4
6305113	JGWAD	19:03:43 Tue 07-Nov-06	Sample	G6J200154-5
6305113	JGWAN	19:07:36 Tue 07-Nov-06	Sample	G6J200155-1
6305113	JGWAW	19:11:28 Tue 07-Nov-06	Sample	G6J200155-2
6305113	JGWA0	19:15:22 Tue 07-Nov-06	Sample	G6J200155-3
6305113	JGWA1	19:19:15 Tue 07-Nov-06	Sample	G6J200155-4
6305113	JGWA2	19:23:09 Tue 07-Nov-06	Sample	G6J200155-5
	CCV 5	19:27:03 Tue 07-Nov-06	Sample	
	CCB 5	19:30:56 Tue 07-Nov-06	Sample	
	CCV 6	19:34:50 Tue 07-Nov-06	Sample	
	CCB 6	19:38:44 Tue 07-Nov-06	Sample	
6305113	MB-CONTROL	19:42:39 Tue 07-Nov-06	Sample	
6298106	MB-CONTROL	19:46:00 Tue 07-Nov-06	Sample	

6298106	JGC8V	19:49:19 Tue 07-Nov-06	Sample	G6J130136-1
6298106	JGC8VP5	19:53:14 Tue 07-Nov-06	Sample	G6J130136-1 5X
6298106	JGC8VZ	19:57:06 Tue 07-Nov-06	Sample	G6J130136-1 PS
6298106	JGC80	20:00:56 Tue 07-Nov-06	Sample	G6J130136-2
6298106	JGC81	20:04:47 Tue 07-Nov-06	Sample	G6J130136-3
6298106	JGC83	20:08:37 Tue 07-Nov-06	Sample	G6J130136-4
6298106	JGC85	20:12:28 Tue 07-Nov-06	Sample	G6J130136-5
	CCV 7	20:16:20 Tue 07-Nov-06	Sample	
	CCB 7	20:20:14 Tue 07-Nov-06	Sample	
	CCV 8	20:24:08 Tue 07-Nov-06	Sample	
	CCB 8	20:28:02 Tue 07-Nov-06	Sample	
,	LL-STD 10X	20:31:55 Tue 07-Nov-06	Sample	Low Level Std 10X-out Al, Mn, Zn
,	LL-STD 5X	20:35:48 Tue 07-Nov-06	Sample	Low Level Std 5X -out Al
	ICSA	20:39:41 Tue 07-Nov-06	Sample	
	ICSAB	20:43:32 Tue 07-Nov-06	Sample	
	Rinse	20:47:25 Tue 07-Nov-06	Sample	
6311238	JH4MHB	20:51:20 Tue 07-Nov-06	Sample	G6K070000-238 BLK
6311238	JH4MHC	20:55:12 Tue 07-Nov-06	Sample	G6K070000-238 LCS
6311238	JH4MHL	20:59:02 Tue 07-Nov-06	Sample	G6K070000-238 LCSD
	CCV 9	21:02:55 Tue 07-Nov-06	Sample	
	CCB 9	21:06:48 Tue 07-Nov-06	Sample	
	CCV 10	21:10:42 Tue 07-Nov-06	Sample	
	CCB 10	21:14:36 Tue 07-Nov-06	Sample	
6311238	JFR1W	21:18:29 Tue 07-Nov-06	Sample	G6J050368-1
6311238	JFR1WP5	21:22:21 Tue 07-Nov-06	Sample	G6J050368-1 5X
6311238	JFR1WZ	21:26:13 Tue 07-Nov-06	Sample	G6J050368-1 PS
6311238	JFR10	21:30:06 Tue 07-Nov-06	Sample	G6J050368-2
6311238	JFR12	21:33:58 Tue 07-Nov-06	Sample	G6J050368-3
6311238	JFR13	21:37:51 Tue 07-Nov-06	Sample	G6J050368-4
6311238	JFR14	21:41:45 Tue 07-Nov-06	Sample	G6J050368-5
6311238	JFR15	21:45:39 Tue 07-Nov-06	Sample	G6J050368-6
6311238	JFR16	21:49:33 Tue 07-Nov-06	Sample	G6J050368-7
6311238	JFR17	21:53:28 Tue 07-Nov-06	Sample	G6J050368-8
	CCV 11	21:57:22 Tue 07-Nov-06	Sample	
	CCB 11	22:01:16 Tue 07-Nov-06	Sample	
	CCV 12	22:05:10 Tue 07-Nov-06	Sample	
	CCB 12	22:09:04 Tue 07-Nov-06	Sample	
6311238	JFXJ7	22:12:56 Tue 07-Nov-06	Sample	G6J060393-1
6311238	JFXKD	22:16:45 Tue 07-Nov-06	Sample	G6J060393-2
6311238	JFXKE	22:20:35 Tue 07-Nov-06	Sample	G6J060393-3
6311238	JFXKG	22:24:24 Tue 07-Nov-06	Sample	G6J060393-4
6311238	JFXKJ	22:28:15 Tue 07-Nov-06	Sample	G6J060393-5
6311238	JFXKL	22:32:05 Tue 07-Nov-06	Sample	G6J060393-6
6311238	JFXKM	22:35:56 Tue 07-Nov-06	Sample	G6J060393-7
6311238	JFXKN	22:39:48 Tue 07-Nov-06	Sample	G6J060393-8
	CCV 13	22:43:40 Tue 07-Nov-06	Sample	
	CCB 13	22:47:34 Tue 07-Nov-06	Sample	

## STL Sacramento

## RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 11/08/06 15:24:16

File ID: 061107A1

Analyst: ionesb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
1	JGV93 N.I.	G6J200154-1	6305113	2A	1.0 11/07/06 16:04		<input type="checkbox"/>
2	JGWAN N.I.	G6J200155-1	6305113	2A	1.0 11/07/06 16:07		<input type="checkbox"/>
3	JGC8V N.I.	G6J130136-1	6298106	2A	1.0 11/07/06 16:10		<input type="checkbox"/>
4	JFR1W N.I.	G6J050368-1	6311238	2A	1.0 11/07/06 16:13		<input type="checkbox"/>
5	Rinse 3X				3.0 11/07/06 17:02		<input type="checkbox"/>
6	Blank				1.0 11/07/06 17:07		<input type="checkbox"/>
7	Standard1				1.0 11/07/06 17:11		<input type="checkbox"/>
8	ICV				1.0 11/07/06 17:14		<input type="checkbox"/>
9	ICB				1.0 11/07/06 17:18		<input type="checkbox"/>
10	LL-STD 10X				10.0 11/07/06 17:24		<input type="checkbox"/>
11	ICSA				1.0 11/07/06 17:30		<input type="checkbox"/>
12	ICSAB				1.0 11/07/06 17:34		<input type="checkbox"/>
13	Rinse				1.0 11/07/06 17:38		<input type="checkbox"/>
14	CCV 1				1.0 11/07/06 17:42		<input type="checkbox"/>
15	CCB 1				1.0 11/07/06 17:46		<input type="checkbox"/>
16	CCV 2				1.0 11/07/06 17:50		<input type="checkbox"/>
17	CCB 2				1.0 11/07/06 17:54		<input type="checkbox"/>
18	JHM8CC	G6K010000	6305113	2A	1.0 11/07/06 17:58		<input type="checkbox"/>
19	JHM8CL	G6K010000	6305113	2A	1.0 11/07/06 18:01		<input type="checkbox"/>
20	JG6NQC	G6J250000	6298106	2A	1.0 11/07/06 18:05		<input type="checkbox"/>
21	JG6NQL	G6J250000	6298106	2A	1.0 11/07/06 18:09		<input type="checkbox"/>
22	Rinse				1.0 11/07/06 18:13		<input type="checkbox"/>
23	JHM8CB	G6K010000	6305113	2A	1.0 11/07/06 18:17		<input type="checkbox"/>
24	JG6NQB	G6J250000	6298106	2A	1.0 11/07/06 18:21		<input type="checkbox"/>
25	JGV93	G6J200154-1	6305113	2A	1.0 11/07/06 18:25		<input type="checkbox"/>
26	JGV93P5	G6J200154	6305113		5.0 11/07/06 18:28		<input type="checkbox"/>
27	JGV93Z	G6J200154-1	6305113		1.0 11/07/06 18:32		<input type="checkbox"/>
28	CCV 3				1.0 11/07/06 18:36		<input type="checkbox"/>
29	CCB 3				1.0 11/07/06 18:40		<input type="checkbox"/>
30	CCV 4				1.0 11/07/06 18:44		<input type="checkbox"/>
31	CCB 4				1.0 11/07/06 18:48		<input type="checkbox"/>
32	JGV97	G6J200154-2	6305113	2A	1.0 11/07/06 18:52		<input type="checkbox"/>
33	JGV98	G6J200154-3	6305113	2A	1.0 11/07/06 18:56		<input type="checkbox"/>
34	JGWAA	G6J200154-4	6305113	2A	1.0 11/07/06 18:59		<input type="checkbox"/>
35	JGWAD	G6J200154-5	6305113	2A	1.0 11/07/06 19:03		<input type="checkbox"/>
36	JGWAN	G6J200155-1	6305113	2A	1.0 11/07/06 19:07		<input type="checkbox"/>
37	JGWAH	G6J200155-2	6305113	2A	1.0 11/07/06 19:11		<input type="checkbox"/>
38	JGWA0	G6J200155-3	6305113	2A	1.0 11/07/06 19:15		<input type="checkbox"/>
39	JGWA1	G6J200155-4	6305113	2A	1.0 11/07/06 19:19		<input type="checkbox"/>
40	JGWA2	G6J200155-5	6305113	2A	1.0 11/07/06 19:23		<input type="checkbox"/>
41	CCV 5				1.0 11/07/06 19:27		<input type="checkbox"/>
42	CCB 5				1.0 11/07/06 19:30		<input type="checkbox"/>
43	CCV 6				1.0 11/07/06 19:34		<input type="checkbox"/>
44	CCB 6				1.0 11/07/06 19:38		<input type="checkbox"/>
45	MB-CONTROL				1.0 11/07/06 19:42		<input type="checkbox"/>
46	MB-CONTROL				1.0 11/07/06 19:46		<input type="checkbox"/>

## STL Sacramento

## RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 11/08/06 15:24:16

File ID: 061107A1

Analyst: jonesb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
47	JGC8V	G6J130136-1	6298106	2A	1.0 11/07/06 19:49		<input type="checkbox"/>
48	JGC8VP5	G6J130136	6298106		5.0 11/07/06 19:53		<input type="checkbox"/>
49	JGC8VZ	G6J130136-1	6298106		1.0 11/07/06 19:57		<input type="checkbox"/>
50	JGC80	G6J130136-2	6298106	2A	1.0 11/07/06 20:00		<input type="checkbox"/>
51	JGC81	G6J130136-3	6298106	2A	1.0 11/07/06 20:04		<input type="checkbox"/>
52	JGC83	G6J130136-4	6298106	2A	1.0 11/07/06 20:08		<input type="checkbox"/>
53	JGC85	G6J130136-5	6298106	2A	1.0 11/07/06 20:12		<input type="checkbox"/>
54	CCV 7				1.0 11/07/06 20:16		<input type="checkbox"/>
55	CCB 7				1.0 11/07/06 20:20		<input type="checkbox"/>
56	CCV 8				1.0 11/07/06 20:24		<input type="checkbox"/>
57	CCB 8				1.0 11/07/06 20:28		<input type="checkbox"/>
58	LL-STD 10X				10.0 11/07/06 20:31		<input type="checkbox"/>
59	LL-STD 5X				5.0 11/07/06 20:35		<input type="checkbox"/>
60	ICSA				1.0 11/07/06 20:39		<input type="checkbox"/>
61	ICSA				1.0 11/07/06 20:43		<input type="checkbox"/>
62	Rinse				1.0 11/07/06 20:47		<input type="checkbox"/>
63	JH4MHB	G6K070000	6311238	2A	1.0 11/07/06 20:51		<input type="checkbox"/>
64	JH4MHC	G6K070000	6311238	2A	1.0 11/07/06 20:55		<input type="checkbox"/>
65	JH4MHL	G6K070000	6311238	2A	1.0 11/07/06 20:59		<input type="checkbox"/>
66	CCV 9				1.0 11/07/06 21:02		<input type="checkbox"/>
67	CCB 9				1.0 11/07/06 21:06		<input type="checkbox"/>
68	CCV 10				1.0 11/07/06 21:10		<input type="checkbox"/>
69	CCB 10				1.0 11/07/06 21:14		<input type="checkbox"/>
70	JFR1W	G6J050368-1	6311238	2A	1.0 11/07/06 21:18		<input type="checkbox"/>
71	JFR1WP5	G6J050368	6311238		5.0 11/07/06 21:22		<input type="checkbox"/>
72	JFR1WZ	G6J050368-1	6311238		1.0 11/07/06 21:26		<input type="checkbox"/>
73	JFR10	G6J050368-2	6311238	2A	1.0 11/07/06 21:30		<input type="checkbox"/>
74	JFR12	G6J050368-3	6311238	2A	1.0 11/07/06 21:33		<input type="checkbox"/>
75	JFR13	G6J050368-4	6311238	2A	1.0 11/07/06 21:37		<input type="checkbox"/>
76	JFR14	G6J050368-5	6311238	2A	1.0 11/07/06 21:41		<input type="checkbox"/>
77	JFR15	G6J050368-6	6311238	2A	1.0 11/07/06 21:45		<input type="checkbox"/>
78	JFR16	G6J050368-7	6311238	2A	1.0 11/07/06 21:49		<input type="checkbox"/>
79	JFR17	G6J050368-8	6311238	2A	1.0 11/07/06 21:53		<input type="checkbox"/>
80	CCV 11				1.0 11/07/06 21:57		<input type="checkbox"/>
81	CCB 11				1.0 11/07/06 22:01		<input type="checkbox"/>
82	CCV 12				1.0 11/07/06 22:05		<input type="checkbox"/>
83	CCB 12				1.0 11/07/06 22:09		<input type="checkbox"/>
84	JFXJ7	G6J060393-1	6311238	2A	1.0 11/07/06 22:12		<input type="checkbox"/>
85	JFXKD	G6J060393-2	6311238	2A	1.0 11/07/06 22:16		<input type="checkbox"/>
86	JFXKE	G6J060393-3	6311238	2A	1.0 11/07/06 22:20		<input type="checkbox"/>
87	JFXKG	G6J060393-4	6311238	2A	1.0 11/07/06 22:24		<input type="checkbox"/>
88	JFXKJ	G6J060393-5	6311238	2A	1.0 11/07/06 22:28		<input type="checkbox"/>
89	JFXKL	G6J060393-6	6311238	2A	1.0 11/07/06 22:32		<input type="checkbox"/>
90	JFXKM	G6J060393-7	6311238	2A	1.0 11/07/06 22:35		<input type="checkbox"/>
91	JFXKN	G6J060393-8	6311238	2A	1.0 11/07/06 22:39		<input type="checkbox"/>
92	CCV 13				1.0 11/07/06 22:43		<input type="checkbox"/>

**STL Sacramento****RUN SUMMARY**

Method: 6020 (SOP: SAC-MT-001)

Instrument: M01

Reported: 11/08/06 15:24:16

**File ID:** 061107A1**Analyst:** jonesb

#	Sample ID	Lot No.	Batch	DF	Analyzed Date	Comment	Q
93	CCB 13			1.0	11/07/06 22:47		<input type="checkbox"/>

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 11/08/06 15:24:16

File ID: 061107A1

Analyst: ionesb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	JGV93 N.I.	11/07/06 16:04	0.1	0.0	0.1	0.0	<input type="checkbox"/>
2	JGWAN N.I.	11/07/06 16:07	0.1	0.0	0.1	0.0	<input type="checkbox"/>
3	JGC8V N.I.	11/07/06 16:10	0.1	0.0	0.1	0.0	<input type="checkbox"/>
4	JFR1W N.I.	11/07/06 16:13	0.1	0.0	0.1	0.0	<input type="checkbox"/>
5	Rinse 3X	11/07/06 17:02	97.9	100.9	99.7	98.5	<input type="checkbox"/>
6	Blank	11/07/06 17:07	100.0	100.0	100.0	100.0	<input checked="" type="checkbox"/>
7	Standard1	11/07/06 17:11	98.2	98.3	100.2	98.1	<input checked="" type="checkbox"/>
8	ICV	11/07/06 17:14	97.5	98.8	98.6	96.6	<input checked="" type="checkbox"/>
9	ICB	11/07/06 17:18	98.4	97.7	100.8	97.1	<input checked="" type="checkbox"/>
10	LL-STD 10X	11/07/06 17:24	100.1	106.2	99.4	97.3	<input checked="" type="checkbox"/>
11	ICSA	11/07/06 17:30	85.5	92.6	88.5	88.4	<input checked="" type="checkbox"/>
12	ICSAB	11/07/06 17:34	85.1	93.3	87.1	88.9	<input checked="" type="checkbox"/>
13	Rinse	11/07/06 17:38	95.9	99.5	101.2	99.6	<input checked="" type="checkbox"/>
14	CCV 1	11/07/06 17:42	96.5	98.9	100.9	96.1	<input checked="" type="checkbox"/>
15	CCB 1	11/07/06 17:46	97.3	98.7	101.3	98.5	<input checked="" type="checkbox"/>
16	CCV 2	11/07/06 17:50	96.0	96.9	101.0	97.6	<input checked="" type="checkbox"/>
17	CCB 2	11/07/06 17:54	96.2	100.0	101.3	97.1	<input checked="" type="checkbox"/>
18	JHM8C	11/07/06 17:58	94.0	96.5	106.1	97.0	<input checked="" type="checkbox"/>
19	JHM8CL	11/07/06 18:01	93.6	97.9	106.9	95.1	<input checked="" type="checkbox"/>
20	JG6NQC	11/07/06 18:05	93.9	97.8	105.3	96.7	<input checked="" type="checkbox"/>
21	JG6NQL	11/07/06 18:09	94.5	97.0	107.2	97.1	<input checked="" type="checkbox"/>
22	Rinse	11/07/06 18:13	96.1	99.7	103.3	95.8	<input checked="" type="checkbox"/>
23	JHM8CB	11/07/06 18:17	94.5	98.4	104.2	98.4	<input checked="" type="checkbox"/>
24	JG6NQB	11/07/06 18:21	95.0	100.2	104.9	96.2	<input checked="" type="checkbox"/>
25	JGV93	11/07/06 18:25	93.9	99.3	104.3	96.2	<input checked="" type="checkbox"/>
26	JGV93P5	11/07/06 18:28	96.4	98.7	104.7	97.5	<input type="checkbox"/>
27	JGV93Z	11/07/06 18:32	93.1	97.6	104.5	96.3	<input checked="" type="checkbox"/>
28	CCV 3	11/07/06 18:36	97.7	95.7	103.5	95.3	<input checked="" type="checkbox"/>
29	CCB 3	11/07/06 18:40	97.8	99.9	104.1	95.7	<input checked="" type="checkbox"/>
30	CCV 4	11/07/06 18:44	98.3	97.6	102.0	96.9	<input checked="" type="checkbox"/>
31	CCB 4	11/07/06 18:48	97.0	98.7	103.5	96.7	<input checked="" type="checkbox"/>
32	JGV97	11/07/06 18:52	95.0	99.9	105.2	95.0	<input checked="" type="checkbox"/>
33	JGV98	11/07/06 18:56	94.6	98.4	105.0	97.4	<input checked="" type="checkbox"/>
34	JGWAA	11/07/06 18:59	96.5	98.5	105.8	95.4	<input checked="" type="checkbox"/>
35	JGWAD	11/07/06 19:03	95.2	98.5	104.4	97.0	<input checked="" type="checkbox"/>
36	JGWAN	11/07/06 19:07	94.9	97.8	105.3	95.0	<input checked="" type="checkbox"/>
37	JGWAW	11/07/06 19:11	95.6	97.9	104.9	96.3	<input checked="" type="checkbox"/>
38	JGWA0	11/07/06 19:15	95.8	98.4	108.0	96.4	<input checked="" type="checkbox"/>
39	JGWA1	11/07/06 19:19	96.3	100.4	106.5	95.5	<input checked="" type="checkbox"/>
40	JGWA2	11/07/06 19:23	95.7	97.9	104.5	97.4	<input checked="" type="checkbox"/>
41	CCV 5	11/07/06 19:27	96.1	98.2	100.4	94.9	<input checked="" type="checkbox"/>
42	CCB 5	11/07/06 19:30	98.4	99.0	103.5	95.2	<input checked="" type="checkbox"/>
43	CCV 6	11/07/06 19:34	96.1	97.1	103.6	94.7	<input checked="" type="checkbox"/>
44	CCB 6	11/07/06 19:38	98.2	101.1	103.1	94.6	<input checked="" type="checkbox"/>
45	MB-CONTRO	11/07/06 19:42	107.0	105.5	116.2	106.9	<input type="checkbox"/>
46	MB-CONTRO	11/07/06 19:46	105.5	105.9	118.2	105.6	<input checked="" type="checkbox"/>

## STL Sacramento

## INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 11/08/06 15:24:16

File ID: 061107A1

Analyst: ionesb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
47	JGC8V	11/07/06 19:49	95.5	100.9	103.5	95.5	<input checked="" type="checkbox"/>
48	JGC8VP5	11/07/06 19:53	97.4	98.0	102.4	95.1	<input type="checkbox"/>
49	JGC8VZ	11/07/06 19:57	92.2	99.8	103.6	93.6	<input checked="" type="checkbox"/>
50	JGC80	11/07/06 20:00	94.9	97.7	104.7	96.5	<input checked="" type="checkbox"/>
51	JGC81	11/07/06 20:04	96.3	100.5	105.4	96.6	<input checked="" type="checkbox"/>
52	JGC83	11/07/06 20:08	95.5	100.0	102.4	96.0	<input checked="" type="checkbox"/>
53	JGC85	11/07/06 20:12	94.5	97.8	105.4	96.5	<input checked="" type="checkbox"/>
54	CCV 7	11/07/06 20:16	96.9	98.4	103.9	95.9	<input checked="" type="checkbox"/>
55	CCB 7	11/07/06 20:20	98.6	99.4	103.5	96.0	<input checked="" type="checkbox"/>
56	CCV 8	11/07/06 20:24	97.9	97.1	102.9	95.5	<input checked="" type="checkbox"/>
57	CCB 8	11/07/06 20:28	95.6	99.4	100.4	93.7	<input checked="" type="checkbox"/>
58	LL-STD 10X	11/07/06 20:31	95.5	97.9	101.6	94.7	<input checked="" type="checkbox"/>
59	LL-STD 5X	11/07/06 20:35	97.5	105.3	101.7	95.5	<input checked="" type="checkbox"/>
60	ICSA	11/07/06 20:39	87.3	95.0	92.2	88.4	<input checked="" type="checkbox"/>
61	ICSA B	11/07/06 20:43	84.4	92.9	92.5	86.1	<input checked="" type="checkbox"/>
62	Rinse	11/07/06 20:47	95.2	99.5	104.2	94.2	<input checked="" type="checkbox"/>
63	JH4MHB	11/07/06 20:51	94.2	98.0	103.1	99.2	<input checked="" type="checkbox"/>
64	JH4MHC	11/07/06 20:55	94.5	96.7	104.9	96.0	<input checked="" type="checkbox"/>
65	JH4MHL	11/07/06 20:59	92.9	97.1	107.0	93.3	<input checked="" type="checkbox"/>
66	CCV 9	11/07/06 21:02	95.4	98.0	104.0	94.5	<input checked="" type="checkbox"/>
67	CCB 9	11/07/06 21:06	95.0	98.9	100.6	93.1	<input checked="" type="checkbox"/>
68	CCV 10	11/07/06 21:10	94.9	97.8	102.0	93.5	<input checked="" type="checkbox"/>
69	CCB 10	11/07/06 21:14	96.4	99.6	102.0	95.0	<input checked="" type="checkbox"/>
70	JFR1W	11/07/06 21:18	92.9	99.8	103.3	94.3	<input checked="" type="checkbox"/>
71	JFR1WP5	11/07/06 21:22	96.9	101.1	101.4	94.5	<input type="checkbox"/>
72	JFR1WZ	11/07/06 21:26	93.2	97.8	105.9	93.5	<input checked="" type="checkbox"/>
73	JFR10	11/07/06 21:30	95.0	99.4	108.7	97.0	<input checked="" type="checkbox"/>
74	JFR12	11/07/06 21:33	95.4	99.5	109.0	95.5	<input checked="" type="checkbox"/>
75	JFR13	11/07/06 21:37	96.2	98.4	107.5	96.6	<input checked="" type="checkbox"/>
76	JFR14	11/07/06 21:41	96.0	100.5	109.0	97.3	<input checked="" type="checkbox"/>
77	JFR15	11/07/06 21:45	95.1	97.8	106.2	95.3	<input checked="" type="checkbox"/>
78	JFR16	11/07/06 21:49	94.2	97.3	106.7	94.7	<input checked="" type="checkbox"/>
79	JFR17	11/07/06 21:53	94.5	98.3	108.5	95.3	<input checked="" type="checkbox"/>
80	CCV 11	11/07/06 21:57	98.2	98.5	104.5	93.7	<input checked="" type="checkbox"/>
81	CCB 11	11/07/06 22:01	98.6	98.4	104.4	94.8	<input checked="" type="checkbox"/>
82	CCV 12	11/07/06 22:05	96.2	98.2	103.8	93.2	<input checked="" type="checkbox"/>
83	CCB 12	11/07/06 22:09	96.4	99.6	101.9	94.6	<input checked="" type="checkbox"/>
84	JFXJ7	11/07/06 22:12	95.3	97.1	107.0	94.8	<input checked="" type="checkbox"/>
85	JFXKD	11/07/06 22:16	96.5	99.6	107.8	95.4	<input checked="" type="checkbox"/>
86	JFXKE	11/07/06 22:20	95.1	97.8	107.0	95.7	<input checked="" type="checkbox"/>
87	JFXKG	11/07/06 22:24	96.8	100.2	108.5	96.0	<input checked="" type="checkbox"/>
88	JFXKJ	11/07/06 22:28	96.2	99.2	107.2	96.4	<input checked="" type="checkbox"/>
89	JFXKL	11/07/06 22:32	97.1	96.7	105.5	97.7	<input checked="" type="checkbox"/>
90	JFXKM	11/07/06 22:35	95.6	96.7	107.3	94.8	<input checked="" type="checkbox"/>
91	JFXKN	11/07/06 22:39	94.7	97.5	106.3	96.5	<input checked="" type="checkbox"/>
92	CCV 13	11/07/06 22:43	97.7	96.1	102.1	95.0	<input checked="" type="checkbox"/>

STL Sacramento

## INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001)

M01 (M01)

Reported: 11/08/06 15:24:16

File ID: 061107A1

Analyst: jonesb

Germanium

Indium

Lithium-6

Thulium

Q

# Sample ID Analyzed Date

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
93	CCB 13	11/07/06 22:47	98.4	99.0	103.7	96.4	<input checked="" type="checkbox"/>

**STL SACRAMENTO - Elan 6000 ICPMS Perkin Elmer M01 Quantitative Method Report**

File Name: 6305113.mth  
File Path: C:\elandata\Method\6305113.mth

**Timing Parameters**

Sweeps/Reading: 50  
Readings/Replicate: 1  
Number of Replicates: 3  
Tuning File: default.tun  
Optimization File: default.dac  
QC Enabled: Yes  
Settling Time: Normal

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Sc	44.956	Peak Hopping	1	14.0 ms	700 ms
Li-1	6.015	Peak Hopping	1	14.0 ms	700 ms
Be	9.012	Peak Hopping	1	14.0 ms	700 ms
Al	26.982	Peak Hopping	1	14.0 ms	700 ms
Cr	51.941	Peak Hopping	1	14.0 ms	700 ms
Mn	54.938	Peak Hopping	1	14.0 ms	700 ms
Co	58.933	Peak Hopping	1	14.0 ms	700 ms
Ni	59.933	Peak Hopping	1	14.0 ms	700 ms
Cu	64.928	Peak Hopping	1	14.0 ms	700 ms
Zn	67.925	Peak Hopping	1	14.0 ms	700 ms
As	74.922	Peak Hopping	1	20.0 ms	1000 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms
Cd	110.904	Peak Hopping	1	14.0 ms	700 ms
Sb	120.904	Peak Hopping	1	14.0 ms	700 ms
Ba	134.906	Peak Hopping	1	14.0 ms	700 ms
In-1	114.904	Peak Hopping	1	14.0 ms	700 ms
Pb	207.977	Peak Hopping	1	14.0 ms	700 ms
Tm-1	168.934	Peak Hopping	1	14.0 ms	700 ms
Cr	49.946	Peak Hopping	1	5.0 ms	250 ms
Cr	52.941	Peak Hopping	1	5.0 ms	250 ms
Ni	60.931	Peak Hopping	1	5.0 ms	250 ms
Cu	62.930	Peak Hopping	1	5.0 ms	250 ms
Zn	66.927	Peak Hopping	1	5.0 ms	250 ms
Zn	65.926	Peak Hopping	1	5.0 ms	250 ms
Ge	71.922	Peak Hopping	1	14.0 ms	700 ms
Cd	107.904	Peak Hopping	1	5.0 ms	250 ms
Cd	113.904	Peak Hopping	1	14.0 ms	700 ms
In	114.904	Peak Hopping	1	14.0 ms	700 ms
207.977	207.977	Peak Hopping	1	14.0 ms	700 ms
Pb	206.976	Peak Hopping	1	14.0 ms	700 ms
Pb	205.975	Peak Hopping	1	14.0 ms	700 ms
Tm	168.934	Peak Hopping	1	14.0 ms	700 ms
Pd	105.903	Peak Hopping	1	14.0 ms	700 ms
Kr	82.914	Peak Hopping	1	14.0 ms	700 ms
W	181.948	Peak Hopping	1	5.0 ms	250 ms

**Signal Processing**

Detector Mode: Dual  
Measurement Units: Counts

AutoLens: On  
 Spectral Peak Processing: Average  
 Signal Profile Processing: Average  
 Blank Subtraction: After Internal Standard  
 Baseline Readings: 0  
 Smoothing: Yes, Factor 5

### **Equations**

Analyte	Mass	Corrections
Ni	59.933	-0.005 * Ca 43
Cu	64.928	-0.0078 * Ti 49
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78
Cd	110.904	-1.073 * Pd 108 + 0.712 * Pd 106
In-1	114.904	- 0.014032 * Sn 118
Pb	207.977	+ 1.0 * Pb 207 + 1.0 * Pb 206
Cr	49.946	- 0.739726 * Ti 47 - 0.002506 * V 51
Cd	107.904	- 1.184953 * Pd 105
Cd	113.904	- 0.026826 * Sn 118
In	114.904	- 0.014032 * Sn 118

### **Calibration Information**

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
Sc	44.956	Linear Thru Zero	ug/L	ug/L				
Li-1	6.015	Linear Thru Zero	ug/L	ug/L				
Be	9.012	Linear Thru Zero	ug/L	ug/L	100			
Al	26.982	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Cr	51.941	Linear Thru Zero	ug/L	ug/L	100			
Mn	54.938	Linear Thru Zero	ug/L	ug/L	100			
Co	58.933	Linear Thru Zero	ug/L	ug/L	100			
Ni	59.933	Linear Thru Zero	ug/L	ug/L	100			
Cu	64.928	Linear Thru Zero	ug/L	ug/L	100			
Zn	67.925	Linear Thru Zero	ug/L	ug/L	100			
As	74.922	Linear Thru Zero	ug/L	ug/L	100			
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L				
Cd	110.904	Linear Thru Zero	ug/L	ug/L	100			
Sb	120.904	Linear Thru Zero	ug/L	ug/L	50			
Ba	134.906	Linear Thru Zero	ug/L	ug/L	100			
In-1	114.904	Linear Thru Zero	ug/L	ug/L				
Pb	207.977	Linear Thru Zero	ug/L	ug/L	100			
Tm-1	168.934	Linear Thru Zero	ug/L	ug/L				
Cr	49.946	Linear Thru Zero	ug/L	ug/L	100			
Cr	52.941	Linear Thru Zero	ug/L	ug/L	100			
Ni	60.931	Linear Thru Zero	ug/L	ug/L	100			
Cu	62.930	Linear Thru Zero	ug/L	ug/L	100			
Zn	66.927	Linear Thru Zero	ug/L	ug/L	100			
Zn	65.926	Linear Thru Zero	ug/L	ug/L	100			
Ge	71.922	Linear Thru Zero	ug/L	ug/L				
Cd	107.904	Linear Thru Zero	ug/L	ug/L	100			
Cd	113.904	Linear Thru Zero	ug/L	ug/L	100			
In	114.904	Linear Thru Zero	ug/L	ug/L				
207.972	207.977	Linear Thru Zero	ug/L	ug/L	100			
Pb	206.976	Linear Thru Zero	ug/L	ug/L	100			
Pb	205.975	Linear Thru Zero	ug/L	ug/L	100			
Tm	168.934	Linear Thru Zero	ug/L	ug/L				
Pd	105.903	Linear Thru Zero	ug/L	ug/L	100			

Kr	82.914	Linear Thru Zero	ug/L	ug/L	100
W	181.948	Linear Thru Zero	ug/L	ug/L	

**STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS, M01 – Methods 6020, 200.8**

**AIR TOX STANDARDS - 4 % HNO<sub>3</sub>, 0.5 % HCl**

**Standards for run:**

Tuning standard: 2830-20B

Internal standard: 2830-19A

Blank, CCBs: 2531-33F

Standard 1, CCVs: 2830-22A

ICV: 2830-18D

ICSA: 2830-22B

ICSAB: 2830-22C

File Number: 061107A1

## Instrument Tuning Report - Elan 6000

File Name: default.tun

### Sample Information

Sample Date/Time: Tuesday, November 07, 2006 15:16:31

Sample ID: TUNE BVOTAW

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.077	1575	0.723	2030	
Be	9.012	9.029	2059	0.715	2020	
Co	58.933	58.929	14289	0.734	1895	
In	114.904	114.879	27947	0.731	1856	
Ce	139.905	139.929	34041	0.729	1900	
Tl	204.975	204.979	49738	0.735	2116	
Pb	207.977	207.979	50476	0.728	2138	
U	238.050	238.076	57687	0.722	2301	

## Elan 6000 Instrument Optimization Report

File Name default.dac

Path c:\elandata\Optimize

### Sample Information

Sample Date/Time: Tuesday, November 07, 2006 15:16:31

Sample ID: TUNE BVOTAW

### Parameter Settings

Nebulizer Gas Flow	0.9
Lens Voltage	5.8
ICP RF Power	1100.0
Analog Stage Voltage	-2000.0
Pulse Stage Voltage	1400.0
Discriminator Threshold	70.0
AC Rod Offset	-7.0
Service DAC 1	60.0
Quadrupole Rod Offset	0.0
Exit Lens	0.0
Makeup Gas Flow [MGAS]	0.9
DRC Mode MGAS	0.9

### AutoLens Calibration

Date: 15:20:06 Tue 07-Nov-06

Sample Filename: TUNE BVOTAW.003

Dataset Pathname: 061107a1\

Lens Voltage Start: 3.00 V

Lens Voltage End: 7.00 V

Lens Voltage Step: 0.25 V

Slope: 0.0140

Intercept: 4.0652

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	4.0 V	5094 cps	17
Co	58.933	5.3 V	324838 cps	17
In	114.904	5.5 V	889771 cps	17

### Dual Detector Calibration

Date: 16:49:19 Wed 01-Nov-06

Sample Filename: DUAL BJONES.780

Dataset Pathname: dual detector calibration\

Points Acquired: 37

Lens Voltage Start: -3.00 V

Lens Voltage End: 15.00 V

Lens Voltage Step: 0.50 V

Analyte	Mass	Gain	N(max)
Li	6.015	7444	1.68e+009 cps
Li	7.016	6930	1.81e+009 cps

Report Date/Time: Tuesday, November 07, 2006 15:22:57

**STL SACRAMENTO - Elan 6000 ICPMS, M01 - Methods 6020, 200.8**

Be	9.012	6509 1.92e+009 cps
B	11.009	6854 1.83e+009 cps
Na	22.990	6822 1.84e+009 cps
Mg	23.985	6393 1.96e+009 cps
Mg	24.986	6177 2.03e+009 cps
Al	26.982	5938 2.11e+009 cps
P	30.994	5542 2.26e+009 cps
K	38.964	5272 2.37e+009 cps
Ca	42.959	5138 2.44e+009 cps
Ca	43.956	5345 2.34e+009 cps
Sc	44.956	5294 2.36e+009 cps
V	50.944	5171 2.42e+009 cps
Cr	51.941	4942 2.53e+009 cps
Fe	53.940	4891 2.56e+009 cps
Mn	54.938	4843 2.58e+009 cps
Fe	56.935	4816 2.60e+009 cps
Co	58.933	4604 2.72e+009 cps
Ni	59.933	4496 2.78e+009 cps
Cu	62.930	4368 2.87e+009 cps
Cu	64.928	4322 2.90e+009 cps
Zn	67.925	4359 2.87e+009 cps
Ge	71.922	4469 2.80e+009 cps
As	74.922	4494 2.79e+009 cps
Se	77.917	4452 2.81e+009 cps
Br	78.918	4489 2.79e+009 cps
Se	81.917	4488 2.79e+009 cps
Sr	87.906	4421 2.83e+009 cps
Mo	96.906	4499 2.78e+009 cps
Ag	106.905	cps
Ag	108.905	cps
Cd	110.904	4013 3.12e+009 cps
Cd	113.904	4057 3.09e+009 cps
In	114.904	4077 3.07e+009 cps
Sn	117.902	4039 3.10e+009 cps
Sb	120.904	4124 3.04e+009 cps
Ba	134.906	3995 3.13e+009 cps
Tm	168.934	3841 3.26e+009 cps
Tl	204.975	3640 3.44e+009 cps
Pb	207.977	3634 3.44e+009 cps
Bi	208.980	cps
U	238.050	3610 3.47e+009 cps

## Daily Performance Report - Elan 6000

Sample ID: DAILY\_BVOTAW

Sample Date/Time: Tuesday, November 07, 2006 15:28:38

Sample Description:

Sample File: C:\elandata\Sample\6310205X.sam

Method File: C:\elandata\Method\000-DAILY\_EPA.mth

Dataset File: C:\elandata\Dataset\061107a1\Daily\_BVOTAW.005

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Number of Replicates: 5

Dual Detector Mode: Dual

### Summary

Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24	47286.720	771.611	1.632
Rh	103	410468.007	5555.574	1.353
Pb	208	223786.634	3258.139	1.456
> Ba	138	468920.199	6283.484	1.340
Ba++	69	0.024	0.000	1.312
> Ce	140	557852.358	5624.544	1.008
CeO	156	0.025	0.001	4.819
Bkgd	220	10.286	3.411	33.159
Li	7	10330.841	273.827	2.651
Be	9	3048.086	45.799	1.503
Co	59	181505.165	3230.691	1.780
In	115	564391.304	2879.840	0.510
Tl	205	324912.067	3543.320	1.091

**Sample ID:** JGV93 N.I.

Sample Description: G6J200154-1 N.I.

Batch ID: 6305113

Sample Date/Time: Tuesday, November 07, 2006 16:04:36

Method File: C:\elandata\Method\000-LISCGEIN....mth

Dataset File: C:\elandata\Dataset\061107a1\JGV93 N.I..006

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 27

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6 Li			274.765	ug/L	0.000
45 Sc			23471.069	ug/L	0.000
69 Ga			6644.147	ug/L	0.000
72 Ge			1288.638	ug/L	0.000
89 Y			3435.710	ug/L	0.000
103 Rh			30.000	ug/L	0.000
115 In			914.330	ug/L	0.000
133 Cs			5421.175	ug/L	0.000
165 Ho			164.287	ug/L	0.000
169 Tm			388.101	ug/L	0.000
209 Bi			1565.812	ug/L	0.000

**Internal Standard Recoveries**

Analyte	Mass	Int Std % Recovery
Li	6	105.454
Sc	45	
Ga	69	
Ge	72	
Y	89	
Rh	103	
In	115	
Cs	133	93.765
Ho	165	
Tm	169	
Bi	209	

Sample ID: JGWAN N.I.

Sample Description: G6J200155-1 N.I.

Batch ID: 6305113

Sample Date/Time: Tuesday, November 07, 2006 16:07:28

Method File: C:\elandata\Method\000-LISCGEIN....mth

Dataset File: C:\elandata\Dataset\061107a1\JGWAN N.I.007

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 34

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6 Li			264.765	ug/L	0.000
45 Sc			22574.657	ug/L	0.000
69 Ga			3923.474	ug/L	0.000
72 Ge			1147.672	ug/L	0.000
89 Y			2053.026	ug/L	0.000
103 Rh			21.429	ug/L	0.000
115 In			748.183	ug/L	0.000
133 Cs			3458.574	ug/L	0.000
165 Ho			109.048	ug/L	0.000
169 Tm			347.624	ug/L	0.000
209 Bi			2145.422	ug/L	0.000

### Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery
Li	6		105.454
Sc	45		
Ga	69		
Ge	72		
Y	89		
Rh	103		
In	115		
Cs	133		93.765
Ho	165		
Tm	169		
Bi	209		

Sample ID: JGC8V N.I.

Sample Description: G6J130136-1 N.I.

Batch ID: 6298106

Sample Date/Time: Tuesday, November 07, 2006 16:10:23

Method File: C:\elandata\Method\000-LISCGEIN....mth

Dataset File: C:\elandata\Dataset\061107a1\JGC8V N.I..008

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 39

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6 Li			296.670	ug/L	0.000
45 Sc			22726.355	ug/L	0.000
69 Ga			4399.822	ug/L	0.000
72 Ge			1147.196	ug/L	0.000
89 Y			2724.107	ug/L	0.000
103 Rh			32.381	ug/L	0.000
115 In			714.991	ug/L	0.000
133 Cs			2073.982	ug/L	0.000
165 Ho			164.763	ug/L	0.000
169 Tm			353.815	ug/L	0.000
209 Bi			1025.756	ug/L	0.000

### Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	105.454
Sc	45	
Ga	69	
Ge	72	
Y	89	
Rh	103	
In	115	
Cs	133	93.765
Ho	165	
Tm	169	
Bi	209	

Sample ID: JFR1W N.I.

Sample Description: G6J050368-1 N.I.

Batch ID: 6311238

Sample Date/Time: Tuesday, November 07, 2006 16:13:17

Method File: C:\elandata\Method\000-LISCGEIN....mth

Dataset File: C:\elandata\Dataset\061107a1\JFR1W N.I..009

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 51

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6 Li			249.526	ug/L	0.000
45 Sc			18920.976	ug/L	0.000
69 Ga			2035.881	ug/L	0.000
72 Ge			1033.376	ug/L	0.000
89 Y			343.338	ug/L	0.000
103 Rh			21.429	ug/L	0.000
115 In			748.729	ug/L	0.000
133 Cs			8338.495	ug/L	0.000
165 Ho			23.810	ug/L	0.000
169 Tm			317.623	ug/L	0.000
209 Bi			225.716	ug/L	0.000

### Internal Standard Recoveries

Analyte	Mass	Int Std	% Recovery
Li	6		105.454
Sc	45		
Ga	69		
Ge	72		
Y	89		
Rh	103		
In	115		
Cs	133		93.765
Ho	165		
Tm	169		
Bi	209		

SOP No. SAC-MT-0001

BJones

**Sample ID: Rinse 3X**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 17:02:52

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\Rinse 3X.010

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc			1342902.573	ug/L	1310205.683	
6 Li-1			314372.848	ug/L	306853.289	
9 Be	-0.001952	753.578	1.667	ug/L	2.000	
27 Al	0.203952	27.730	20200.632	ug/L	19432.222	
52 Cr	0.090414	205.539	36296.837	ug/L	35616.387	
55 Mn	0.029484	10.073	2605.721	ug/L	2200.610	
59 Co	-0.000093	1394.178	69.000	ug/L	70.000	
60 Ni	0.005065	175.330	183.815	ug/L	172.190	
65 Cu	0.001483	646.238	221.756	ug/L	218.458	
68 Zn	0.590267	12.121	2477.017	ug/L	1902.543	
75 As	-0.421369	58.758	22143.118	ug/L	23248.393	
72 Ge-1			1197868.753	ug/L	1200561.350	
111 Cd	-0.001985	168.065	39.602	ug/L	45.292	
121 Sb	0.008432	3.413	175.668	ug/L	93.334	
135 Ba	0.009924	129.867	280.338	ug/L	255.337	
115 In-1			1384231.130	ug/L	1391074.457	
208 Pb	-0.006377	21.265	1410.044	ug/L	1605.059	
169 Tm-1			975419.813	ug/L	988980.194	
50 Cr	-0.022241	933.848	-319.247	ug/L	-316.451	
53 Cr	-2.202500	367.306	52154.353	ug/L	53011.140	
61 Ni	2.248107	94.085	1619.087	ug/L	1532.043	
63 Cu	-0.003494	87.068	75.001	ug/L	82.001	
67 Zn	2.853816	54.350	2827.613	ug/L	2597.747	
66 Zn	0.558253	11.163	1032.504	ug/L	765.430	
72 Ge			1197868.753	ug/L	1200561.350	
108 Cd	0.017467	70.674	4.778	ug/L	1.434	
114 Cd	-0.002405	54.936	85.701	ug/L	102.013	
115 In			1384231.130	ug/L	1391074.457	
208 207.977	-0.007502	27.365	728.030	ug/L	842.375	
207 Pb	-0.007921	45.741	313.006	ug/L	363.341	
206 Pb	-0.003221	79.939	369.008	ug/L	399.343	
169 Tm			975419.813	ug/L	988980.194	
106 Pd	0.001402	519.617	12.000	ug/L	11.667	
83 Kr	214.815251	115.350	707.695	ug/L	669.026	
182 W			3.667	ug/L	4.667	

Report Date/Time: Tuesday, November 07, 2006 17:04:30

Page 1

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
[> Li-1	6	102.451
[  Be	9	
[  Al	27	
[  Cr	52	
[  Mn	55	
[  Co	59	
[  Ni	60	
[  Cu	65	
[  Zn	68	
[  As	75	
[> Ge-1	72	99.776
[  Cd	111	
[  Sb	121	
[  Ba	135	
[> In-1	115	99.508
[  Pb	208	
[> Tm-1	169	98.629
[  Cr	50	
[  Cr	53	
[  Ni	61	
[  Cu	63	
[  Zn	67	
[  Zn	66	
[> Ge	72	99.776
[  Cd	108	
[  Cd	114	
[> In	115	99.508
[  207.977	208	
[  Pb	207	
[  Pb	206	
[> Tm	169	98.629
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: Blank**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 17:07:01

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\Blank.011

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc			1317562.271	ug/L		
6 Li-1			315191.361	ug/L		
9 Be			1.333	ug/L		
27 Al			20070.681	ug/L		
52 Cr			34855.999	ug/L		
55 Mn			2170.269	ug/L		
59 Co			87.000	ug/L		
60 Ni			168.875	ug/L		
65 Cu			214.311	ug/L		
68 Zn			2077.917	ug/L		
75 As			21800.666	ug/L		
72 Ge-1			1223397.518	ug/L		
111 Cd			40.624	ug/L		
121 Sb			172.002	ug/L		
135 Ba			281.005	ug/L		
115 In-1			1372150.246	ug/L		
208 Pb			1507.050	ug/L		
169 Tm-1			990425.381	ug/L		
50 Cr			-332.643	ug/L		
53 Cr			50234.573	ug/L		
61 Ni			1631.426	ug/L		
63 Cu			91.335	ug/L		
67 Zn			2629.440	ug/L		
66 Zn			789.101	ug/L		
72 Ge			1223397.518	ug/L		
108 Cd			5.532	ug/L		
114 Cd			90.438	ug/L		
115 In			1372150.246	ug/L		
208 207.977			785.369	ug/L		
207 Pb			335.006	ug/L		
206 Pb			386.675	ug/L		
169 Tm			990425.381	ug/L		
106 Pd			11.333	ug/L		
83 Kr			676.026	ug/L		
182 W			5.667	ug/L		

Report Date/Time: Tuesday, November 07, 2006 17:08:39

Page 1

G6J200155 Sample ID: Blank

STL Sacramento (916) 373 - 5600

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## Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45
[> Li-1	6
[ L Be	9
[ Al	27
[ Cr	52
[ Mn	55
[ Co	59
[ Ni	60
[ Cu	65
[ Zn	68
[ As	75
[> Ge-1	72
[ Cd	111
[ Sb	121
[ Ba	135
[> In-1	115
[ Pb	208
[> Tm-1	169
[ Cr	50
[ Cr	53
[ Ni	61
[ Cu	63
[ Zn	67
[ Zn	66
[> Ge	72
[ Cd	108
[ Cd	114
[> In	115
[ 207.977	208
[ Pb	207
[ Pb	206
[> Tm	169
Pd	106
Kr	83
W	182

BJones

Sample ID: Standard 1

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 17:11:05

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\Standard 1.012

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1274124.820	ug/L	1317562.271
6 Li-1			315961.575	ug/L	315191.361
9 Be	100.000000	2.956	19541.798	ug/L	1.333
27 Al	5100.000000	2.496	19363989.828	ug/L	20070.681
52 Cr	100.000000	4.392	899461.112	ug/L	34855.999
55 Mn	100.000000	0.360	1341749.992	ug/L	2170.269
59 Co	100.000000	5.474	1119517.580	ug/L	87.000
60 Ni	100.000000	4.576	243329.312	ug/L	168.875
65 Cu	100.000000	3.219	265957.408	ug/L	214.311
68 Zn	100.000000	2.616	101365.404	ug/L	2077.917
75 As	100.000000	2.743	273820.905	ug/L	21800.666
72 Ge-1			1201672.504	ug/L	1223397.518
111 Cd	100.000000	2.359	272567.576	ug/L	40.624
121 Sb	50.000000	1.620	477824.568	ug/L	172.002
135 Ba	100.000000	2.132	255405.660	ug/L	281.005
115 In-1			1348977.835	ug/L	1372150.246
208 Pb	100.000000	0.908	2648955.987	ug/L	1507.050
169 Tm-1			971669.857	ug/L	990425.381
50 Cr	100.000000	19.811	19937.221	ug/L	-332.643
53 Cr	100.000000	16.546	84854.375	ug/L	50234.573
61 Ni	100.000000	8.310	5606.696	ug/L	1631.426
63 Cu	100.000000	3.640	198574.305	ug/L	91.335
67 Zn	100.000000	3.162	10861.182	ug/L	2629.440
66 Zn	100.000000	3.158	49459.684	ug/L	789.101
72 Ge			1201672.504	ug/L	1223397.518
108 Cd	100.000000	3.213	18725.091	ug/L	5.532
114 Cd	100.000000	1.177	638348.655	ug/L	90.438
115 In			1348977.835	ug/L	1372150.246
208 207.977	100.000000	1.527	1331658.752	ug/L	785.369
207 Pb	100.000000	0.520	570448.149	ug/L	335.006
206 Pb	100.000000	0.734	746849.087	ug/L	386.675
169 Tm			971669.857	ug/L	990425.381
106 Pd	100.000000	1.638	23535.950	ug/L	11.333
83 Kr	100.000000	85.233	710.362	ug/L	676.026
182 W			100.668	ug/L	5.667

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G6J200155 Sample ID: Standard 1

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## Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45
[> Li-1	6
[ Be	9
[ Al	27
[ Cr	52
[ Mn	55
[ Co	59
[ Ni	60
[ Cu	65
[ Zn	68
[ As	75
[> Ge-1	72
[ Cd	111
[ Sb	121
[ Ba	135
[> In-1	115
[ Pb	208
[> Tm-1	169
[ Cr	50
[ Cr	53
[ Ni	61
[ Cu	63
[ Zn	67
[ Zn	66
[> Ge	72
[ Cd	108
[ Cd	114
[> In	115
[ 207.977	208
[ Pb	207
[ Pb	206
[> Tm	169
Pd	106
Kr	83
W	182

BJones

**Sample ID: ICV**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 17:14:55

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\ICV .013

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 3

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1309703.689	ug/L	1317562.271
6 Li-1			310897.365	ug/L	315191.361
9 Be	79.713966	2.308	15333.091	ug/L	1.333
27 Al	840.328257	4.100	3181140.311	ug/L	20070.681
52 Cr	81.875032	4.538	736920.974	ug/L	34855.999
55 Mn	86.075037	6.546	1144941.192	ug/L	2170.269
59 Co	83.251390	5.678	924625.076	ug/L	87.000
60 Ni	83.568317	4.706	201810.579	ug/L	168.875
65 Cu	81.789626	2.692	215927.322	ug/L	214.311
68 Zn	80.256715	3.119	81101.823	ug/L	2077.917
75 As	77.762129	3.132	215975.301	ug/L	21800.666
72 Ge-1			1192457.718	ug/L	1223397.518
111 Cd	80.562952	3.992	220543.480	ug/L	40.624
121 Sb	38.558125	3.224	370065.887	ug/L	172.002
135 Ba	80.605172	4.392	206773.869	ug/L	281.005
115 In-1			1355043.359	ug/L	1372150.246
208 Pb	83.869991	1.222	2188635.890	ug/L	1507.050
169 Tm-1			957127.454	ug/L	990425.381
50 Cr	69.429106	8.092	13668.315	ug/L	-332.643
53 Cr	83.246747	14.544	78293.670	ug/L	50234.573
61 Ni	81.723719	9.167	4836.409	ug/L	1631.426
63 Cu	80.768297	5.156	159146.179	ug/L	91.335
67 Zn	83.295973	5.003	9402.795	ug/L	2629.440
66 Zn	82.135080	3.960	40458.105	ug/L	789.101
72 Ge			1192457.718	ug/L	1223397.518
108 Cd	78.657045	4.073	14796.314	ug/L	5.532
114 Cd	80.286930	6.807	514488.036	ug/L	90.438
115 In			1355043.359	ug/L	1372150.246
208 207.977	84.350737	1.279	1106472.487	ug/L	785.369
207 Pb	81.575070	1.235	458468.704	ug/L	335.006
206 Pb	84.765711	1.435	623694.699	ug/L	386.675
169 Tm			957127.454	ug/L	990425.381
106 Pd	80.222439	0.690	18883.355	ug/L	11.333
83 Kr	-36.893057	190.185	663.358	ug/L	676.026
182 W			30.000	ug/L	5.667

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G6J200155 Sample ID: ICV

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## Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	98.638
[ Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	97.471
[ Cd	111	
Sb	121	
Ba	135	
[> In-1	115	98.753
[ Pb	208	
[> Tm-1	169	96.638
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	97.471
[ Cd	108	
Cd	114	
[> In	115	98.753
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	96.638
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: ICB**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 17:18:48

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\ICB.014

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1288707.823	ug/L	1317562.271	
6 Li-1					317567.501	ug/L	315191.361	
9 Be	0.013554	100.653			4.000	ug/L	1.333	
27 Al	-0.147782	43.837			19179.334	ug/L	20070.681	
52 Cr	-0.028490	699.490			34016.702	ug/L	34855.999	
55 Mn	0.006152	111.050			2215.947	ug/L	2170.269	
59 Co	0.001812	41.786			106.001	ug/L	87.000	
60 Ni	0.002495	128.428			172.092	ug/L	168.875	
65 Cu	0.012885	31.183			245.319	ug/L	214.311	
68 Zn	-0.432743	27.630			1615.150	ug/L	2077.917	
75 As	0.049814	428.403			21567.507	ug/L	21800.666	
72 Ge-1					1203532.195	ug/L	1223397.518	
111 Cd	0.004736	57.459			52.570	ug/L	40.624	
121 Sb	0.175607	16.378			1835.862	ug/L	172.002	
135 Ba	0.006044	184.012			289.671	ug/L	281.005	
115 In-1					1340341.724	ug/L	1372150.246	
208 Pb	-0.009929	5.404			1203.699	ug/L	1507.050	
169 Tm-1					961971.811	ug/L	990425.381	
50 Cr	0.107352	129.768			-304.997	ug/L	-332.643	
53 Cr	-2.878561	169.410			48370.300	ug/L	50234.573	
61 Ni	-1.770770	67.737			1533.376	ug/L	1631.426	
63 Cu	-0.004582	173.295			80.668	ug/L	91.335	
67 Zn	0.208193	447.886			2603.752	ug/L	2629.440	
66 Zn	-0.354032	17.893			604.059	ug/L	789.101	
72 Ge					1203532.195	ug/L	1223397.518	
108 Cd	0.000223	8866.760			5.409	ug/L	5.532	
114 Cd	0.002247	114.142			102.574	ug/L	90.438	
115 In					1340341.724	ug/L	1372150.246	
208 207.977	-0.010674	9.746			622.355	ug/L	785.369	
207 Pb	-0.011042	5.463			263.004	ug/L	335.006	
206 Pb	-0.007751	6.180			318.339	ug/L	386.675	
169 Tm					961971.811	ug/L	990425.381	
106 Pd	0.009919	89.214			13.667	ug/L	11.333	
83 Kr	33.009637	140.716			687.360	ug/L	676.026	
182 W					4.667	ug/L	5.667	

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Sample ID: ICB

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## Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	100.754
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	98.376
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	97.682
Pb	208	
[> Tm-1	169	97.127
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	98.376
Cd	108	
Cd	114	
[> In	115	97.682
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	97.127
Pd	106	
Kr	83	
W	182	

BJones

**Sample ID: LL-STD 10X**

Sample Description: Low Level Std 10X

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 17:24:40

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\LL-STD 10X.015

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 15

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1308524.275	ug/L	1317562.271
6 Li-1			313447.628	ug/L	315191.361
9 Be	0.937505	10.062	183.335	ug/L	1.333
27 Al	59.974465	1.342	251992.768	ug/L	20070.681
52 Cr	0.913156	24.349	42937.508	ug/L	34855.999
55 Mn	1.398192	2.061	21260.800	ug/L	2170.269
59 Co	0.977700	1.859	11249.560	ug/L	87.000
60 Ni	1.009793	3.142	2674.167	ug/L	168.875
65 Cu	1.022998	2.813	2986.927	ug/L	214.311
68 Zn	8.675006	7.690	10863.423	ug/L	2077.917
75 As	1.181545	14.960	24861.076	ug/L	21800.666
72 Ge-1			1224705.346	ug/L	1223397.518
111 Cd	0.891253	0.722	2666.936	ug/L	40.624
121 Sb	0.480573	2.954	5139.176	ug/L	172.002
135 Ba	0.922876	3.778	2839.794	ug/L	281.005
115 In-1			1456741.351	ug/L	1372150.246
208 Pb	1.079431	1.279	29820.776	ug/L	1507.050
169 Tm-1			964154.960	ug/L	990425.381
50 Cr	1.653189	20.690	9.585	ug/L	-332.643
53 Cr	-9.185013	55.165	46943.852	ug/L	50234.573
61 Ni	-1.182871	246.582	1585.738	ug/L	1631.426
63 Cu	1.029062	3.281	2174.423	ug/L	91.335
67 Zn	7.085427	21.960	3229.669	ug/L	2629.440
66 Zn	9.113867	3.705	5315.187	ug/L	789.101
72 Ge			1224705.346	ug/L	1223397.518
108 Cd	0.819523	9.881	171.757	ug/L	5.532
114 Cd	0.908570	2.405	6356.492	ug/L	90.438
115 In			1456741.351	ug/L	1372150.246
208 207.977	1.093911	1.328	15207.872	ug/L	785.369
207 Pb	1.040995	0.928	6214.873	ug/L	335.006
206 Pb	1.082973	2.348	8398.031	ug/L	386.675
169 Tm			964154.960	ug/L	990425.381
106 Pd	1.010304	11.156	249.004	ug/L	11.333
83 Kr	-18.446432	588.748	669.692	ug/L	676.026
182 W			6.333	ug/L	5.667

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G6J200155 Sample ID: LL-STD 10X

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
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Sc	45	
[> Li-1	6	99.447
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	100.107
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	106.165
Pb	208	
[> Tm-1	169	97.348
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	100.107
Cd	108	
Cd	114	
[> In	115	106.165
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	97.348
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: ICSA**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 17:30:51

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\ICSA.016

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1149576.957	ug/L	1317562.271	
6 Li-1					279028.211	ug/L	315191.361	
9 Be	0.054557	66.552			10.667	ug/L	1.333	
27 Al	108582.844382		2.353		358677775.628	ug/L	20070.681	
52 Cr	1.556016		10.048		41532.025	ug/L	34855.999	
55 Mn	5.275059		2.666		63384.537	ug/L	2170.269	
59 Co	2.410245		1.073		23583.406	ug/L	87.000	
60 Ni	1.719743		10.420		3787.148	ug/L	168.875	
65 Cu	0.840173		18.884		2125.450	ug/L	214.311	
68 Zn	4.065154		32.133		5284.973	ug/L	2077.917	
75 As	0.423084		242.275		19559.197	ug/L	21800.666	
72 Ge-1					1046218.264	ug/L	1223397.518	
111 Cd	0.605457		20.034		1598.760	ug/L	40.624	
121 Sb	0.268181		2.820		2570.378	ug/L	172.002	
135 Ba	0.789906		3.844		2155.932	ug/L	281.005	
115 In-1					1269927.849	ug/L	1372150.246	
208 Pb	0.868297		3.949		22031.492	ug/L	1507.050	
169 Tm-1					875436.400	ug/L	990425.381	
50 Cr	200.732301		21.843		35284.848	ug/L	-332.643	
53 Cr	3.864612		71.332		44162.709	ug/L	50234.573	
61 Ni	28.742924		15.921		2397.588	ug/L	1631.426	
63 Cu	4.726309		0.848		8250.878	ug/L	91.335	
67 Zn	24.866210		3.684		4041.947	ug/L	2629.440	
66 Zn	8.886692		15.220		4439.514	ug/L	789.101	
72 Ge					1046218.264	ug/L	1223397.518	
108 Cd	56.146053		3.101		9894.579	ug/L	5.532	
114 Cd	3.303276		2.773		19942.553	ug/L	90.438	
115 In					1269927.849	ug/L	1372150.246	
208 207.977	0.908954		5.119		11583.999	ug/L	785.369	
207 Pb	0.845519		3.667		4637.562	ug/L	335.006	
206 Pb	0.813207		3.489		5809.930	ug/L	386.675	
169 Tm					875436.400	ug/L	990425.381	
106 Pd	0.542699		15.899		139.001	ug/L	11.333	
83 Kr	730.105711		8.968		926.716	ug/L	676.026	
182 W					1039.506	ug/L	5.667	

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Sample ID: ICSA

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
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Sc	45	
[> Li-1	6	88.527
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	85.517
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	92.550
Pb	208	
[> Tm-1	169	88.390
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	85.517
Cd	108	
Cd	114	
[> In	115	92.550
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	88.390
Pd	106	
Kr	83	
W	182	

Sample ID: ICSAB

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 17:34:42

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\ICSAB.017

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1136071.219	ug/L	1317562.271	
6 Li-1					274447.501	ug/L	315191.361	
9 Be	100.547103	1.519			17076.987	ug/L	1.333	
27 Al	111869.236738	2.239			367558808.543	ug/L	20070.681	
52 Cr	98.901161	4.254			770968.906	ug/L	34855.999	
55 Mn	106.364673	3.372			1235374.876	ug/L	2170.269	
59 Co	96.607064	2.003			937326.209	ug/L	87.000	
60 Ni	93.741746	2.524			197673.744	ug/L	168.875	
65 Cu	91.531655	1.623			210912.355	ug/L	214.311	
68 Zn	92.249307	0.274			81148.378	ug/L	2077.917	
75 As	103.040647	2.360			243837.056	ug/L	21800.666	
72 Ge-1					1040872.860	ug/L	1223397.518	
111 Cd	92.392490	2.819			239038.858	ug/L	40.624	
121 Sb	49.299361	1.925			447071.562	ug/L	172.002	
135 Ba	98.676403	3.980			239108.729	ug/L	281.005	
115 In-1					1280280.901	ug/L	1372150.246	
208 Pb	98.521449	0.390			2364662.915	ug/L	1507.050	
169 Tm-1					880435.174	ug/L	990425.381	
50 Cr	326.664396	5.265			57265.680	ug/L	-332.643	
53 Cr	105.205251	4.800			75169.594	ug/L	50234.573	
61 Ni	121.619719	4.794			5609.030	ug/L	1631.426	
63 Cu	94.543323	3.475			162629.559	ug/L	91.335	
67 Zn	112.195333	1.533			10283.898	ug/L	2629.440	
66 Zn	99.239948	2.236			42532.548	ug/L	789.101	
72 Ge					1040872.860	ug/L	1223397.518	
108 Cd	146.177551	1.607			25986.481	ug/L	5.532	
114 Cd	96.572746	1.950			584953.936	ug/L	90.438	
115 In					1280280.901	ug/L	1372150.246	
208 207.977	99.459267	0.605			1199993.689	ug/L	785.369	
207 Pb	96.363852	1.376			498082.395	ug/L	335.006	
206 Pb	98.497383	0.489			666586.831	ug/L	386.675	
169 Tm					880435.174	ug/L	990425.381	
106 Pd	88.672508	1.853			20871.201	ug/L	11.333	
83 Kr	661.172055	15.932			903.047	ug/L	676.026	
182 W					1121.201	ug/L	5.667	

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Sample ID: ICSAB

G6J200155

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## Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	87.073
[  Be	9	
[  Al	27	
[  Cr	52	
[  Mn	55	
[  Co	59	
[  Ni	60	
[  Cu	65	
[  Zn	68	
[  As	75	
[> Ge-1	72	85.081
[  Cd	111	
[  Sb	121	
[  Ba	135	
[> In-1	115	93.305
[  Pb	208	
[> Tm-1	169	88.895
[  Cr	50	
[  Cr	53	
[  Ni	61	
[  Cu	63	
[  Zn	67	
[  Zn	66	
[> Ge	72	85.081
[  Cd	108	
[  Cd	114	
[> In	115	93.305
[  207.977	208	
[  Pb	207	
[  Pb	206	
[> Tm	169	88.895
Pd	106	
Kr	83	
W	182	

BJones

**Sample ID: Rinse**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 17:38:35

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\Rinse.018

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1283597.391	ug/L	1317562.271
6 Li-1			318977.126	ug/L	315191.361
9 Be	0.006637	155.793	2.667	ug/L	1.333
27 Al	2.734586	22.765	29360.346	ug/L	20070.681
52 Cr	-0.493818	25.178	29236.113	ug/L	34855.999
55 Mn	0.018739	44.145	2324.976	ug/L	2170.269
59 Co	-0.000253	188.243	80.667	ug/L	87.000
60 Ni	0.011577	40.342	189.473	ug/L	168.875
65 Cu	0.011609	77.849	235.691	ug/L	214.311
68 Zn	0.045089	185.537	2036.571	ug/L	2077.917
75 As	0.538929	92.921	22219.979	ug/L	21800.666
72 Ge-1			1172953.167	ug/L	1223397.518
111 Cd	0.000060	5045.073	40.565	ug/L	40.624
121 Sb	0.001950	174.964	190.002	ug/L	172.002
135 Ba	-0.000683	1098.869	277.671	ug/L	281.005
115 In-1			1364744.838	ug/L	1372150.246
208 Pb	-0.007988	43.656	1286.369	ug/L	1507.050
169 Tm-1			986778.634	ug/L	990425.381
50 Cr	0.455114	36.315	-228.389	ug/L	-332.643
53 Cr	-4.621950	136.482	46538.574	ug/L	50234.573
61 Ni	4.364398	39.508	1734.481	ug/L	1631.426
63 Cu	-0.000414	1767.737	86.668	ug/L	91.335
67 Zn	-1.745417	91.526	2378.906	ug/L	2629.440
66 Zn	0.146443	77.527	826.443	ug/L	789.101
72 Ge			1172953.167	ug/L	1223397.518
108 Cd	0.154585	8.384	34.779	ug/L	5.532
114 Cd	0.008449	35.032	144.584	ug/L	90.438
115 In			1364744.838	ug/L	1372150.246
208 207.977	-0.010253	41.533	643.690	ug/L	785.369
207 Pb	-0.005653	45.908	301.005	ug/L	335.006
206 Pb	-0.005733	60.547	341.673	ug/L	386.675
169 Tm			986778.634	ug/L	990425.381
106 Pd	-0.014170	108.167	8.000	ug/L	11.333
83 Kr	-53.397896	45.418	657.691	ug/L	676.026
182 W			7.333	ug/L	5.667

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G6J200155 Sample ID: Rinse

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
[> Li-1	6	101.201
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	95.877
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	99.460
Pb	208	
[> Tm-1	169	99.632
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	95.877
Cd	108	
Cd	114	
[> In	115	99.460
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	99.632
Pd	106	
Kr	83	
W	182	

BJones

**Sample ID: CCV 1**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 17:42:30

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCV 1.019

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1298326.292	ug/L	1317562.271
6 Li-1			318056.478	ug/L	315191.361
9 Be	100.979964	1.329	19875.230	ug/L	1.333
27 Al	5607.131091	0.408	20922343.181	ug/L	20070.681
52 Cr	97.229583	4.532	860576.202	ug/L	34855.999
55 Mn	101.819539	0.505	1342302.587	ug/L	2170.269
59 Co	99.043293	4.854	1089777.204	ug/L	87.000
60 Ni	100.796334	4.209	241087.647	ug/L	168.875
65 Cu	100.840781	3.631	263523.790	ug/L	214.311
68 Zn	98.886018	0.944	98521.920	ug/L	2077.917
75 As	100.933960	0.462	271432.931	ug/L	21800.666
72 Ge-1			1180692.210	ug/L	1223397.518
111 Cd	97.701167	3.691	267926.010	ug/L	40.624
121 Sb	48.747886	2.320	468766.445	ug/L	172.002
135 Ba	99.431965	2.061	255511.525	ug/L	281.005
115 In-1			1357191.366	ug/L	1372150.246
208 Pb	103.497719	1.952	2685014.778	ug/L	1507.050
169 Tm-1			951854.653	ug/L	990425.381
50 Cr	92.452065	9.943	18141.019	ug/L	-332.643
53 Cr	91.365047	8.293	80417.084	ug/L	50234.573
61 Ni	102.852057	4.157	5625.393	ug/L	1631.426
63 Cu	98.771703	3.668	192765.882	ug/L	91.335
67 Zn	97.628356	1.488	10480.546	ug/L	2629.440
66 Zn	99.633066	2.277	48437.523	ug/L	789.101
72 Ge			1180692.210	ug/L	1223397.518
108 Cd	99.296326	2.004	18707.955	ug/L	5.532
114 Cd	97.505274	1.536	626198.643	ug/L	90.438
115 In			1357191.366	ug/L	1372150.246
208 207.977	103.822599	2.089	1354056.118	ug/L	785.369
207 Pb	102.153478	3.460	570625.216	ug/L	335.006
206 Pb	103.945212	1.497	760333.444	ug/L	386.675
169 Tm			951854.653	ug/L	990425.381
106 Pd	98.877628	2.201	23271.916	ug/L	11.333
83 Kr	-44.660012	160.325	660.692	ug/L	676.026
182 W			96.668	ug/L	5.667

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Sample ID: CCV 1

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
[> Li-1	6	100.909
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	96.509
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	98.910
Pb	208	
[> Tm-1	169	96.106
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	96.509
Cd	108	
Cd	114	
[> In	115	98.910
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	96.106
Pd	106	
Kr	83	
W	182	

BJones

Sample ID: CCB 1

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 17:46:23

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCB 1.020

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1332625.441	ug/L	1317562.271	
6 Li-1					319270.933	ug/L	315191.361	
9 Be	0.008488	176.998			3.000	ug/L	1.333	
27 Al	0.325269	31.440			20748.274	ug/L	20070.681	
52 Cr	-0.516311	19.533			29457.850	ug/L	34855.999	
55 Mn	-0.006894	56.082			2018.233	ug/L	2170.269	
59 Co	0.002819	47.765			115.667	ug/L	87.000	
60 Ni	0.009162	59.528			186.029	ug/L	168.875	
65 Cu	-0.003363	234.453			199.276	ug/L	214.311	
68 Zn	-0.367736	21.183			1657.490	ug/L	2077.917	
75 As	0.503799	101.543			22434.372	ug/L	21800.666	
72 Ge-1					1189902.138	ug/L	1223397.518	
111 Cd	0.002623	164.013			47.155	ug/L	40.624	
121 Sb	0.003054	39.314			199.002	ug/L	172.002	
135 Ba	0.008632	52.588			299.338	ug/L	281.005	
115 In-1					1353734.715	ug/L	1372150.246	
208 Pb	-0.012287	14.334			1157.697	ug/L	1507.050	
169 Tm-1					975093.577	ug/L	990425.381	
50 Cr	0.389198	22.974			-245.059	ug/L	-332.643	
53 Cr	-6.120310	103.436			46657.905	ug/L	50234.573	
61 Ni	1.987286	98.596			1664.443	ug/L	1631.426	
63 Cu	-0.000419	1221.534			88.001	ug/L	91.335	
67 Zn	-2.651237	63.179			2337.542	ug/L	2629.440	
66 Zn	-0.315435	37.799			615.394	ug/L	789.101	
72 Ge					1189902.138	ug/L	1223397.518	
108 Cd	0.047303	44.614			14.384	ug/L	5.532	
114 Cd	0.002813	108.570			107.366	ug/L	90.438	
115 In					1353734.715	ug/L	1372150.246	
208 207.977	-0.012330	10.656			608.688	ug/L	785.369	
207 Pb	-0.014208	24.373			248.670	ug/L	335.006	
206 Pb	-0.010744	19.505			300.339	ug/L	386.675	
169 Tm					975093.577	ug/L	990425.381	
106 Pd	0.008502	160.728			13.333	ug/L	11.333	
83 Kr	-56.310449	122.874			656.691	ug/L	676.026	
182 W					5.667	ug/L	5.667	

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
[> Li-1	6	101.294
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	97.262
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	98.658
Pb	208	
[> Tm-1	169	98.452
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	97.262
Cd	108	
Cd	114	
[> In	115	98.658
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	98.452
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCV 2**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 17:50:17

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCV 2.021

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1290724.575	ug/L	1317562.271	
6 Li-1					318342.081	ug/L	315191.361	
9 Be	99.146130	0.456			19529.443	ug/L	1.333	
27 Al	5409.874113	3.186	20075576.002		ug/L	20070.681		
52 Cr	99.342599	4.548			873772.096	ug/L	34855.999	
55 Mn	105.151821	3.864			1378252.120	ug/L	2170.269	
59 Co	99.223811	3.723			1086096.419	ug/L	87.000	
60 Ni	101.197626	2.554			240801.552	ug/L	168.875	
65 Cu	100.614121	4.405			261555.247	ug/L	214.311	
68 Zn	97.394183	1.668			96555.286	ug/L	2077.917	
75 As	100.149012	2.019			268068.949	ug/L	21800.666	
72 Ge-1					1174483.175	ug/L	1223397.518	
111 Cd	99.774200	2.429			268056.662	ug/L	40.624	
121 Sb	49.991656	1.908			470911.519	ug/L	172.002	
135 Ba	100.378500	3.259			252678.782	ug/L	281.005	
115 In-1					1329611.746	ug/L	1372150.246	
208 Pb	100.356721	1.200			2644065.158	ug/L	1507.050	
169 Tm-1					966600.778	ug/L	990425.381	
50 Cr	96.474005	8.719			18873.225	ug/L	-332.643	
53 Cr	93.373203	13.435			80665.298	ug/L	50234.573	
61 Ni	99.970977	4.567			5482.138	ug/L	1631.426	
63 Cu	99.124254	2.946			192457.694	ug/L	91.335	
67 Zn	96.280999	3.897			10313.659	ug/L	2629.440	
66 Zn	100.702026	1.487			48699.977	ug/L	789.101	
72 Ge					1174483.175	ug/L	1223397.518	
108 Cd	101.521693	2.102			18741.094	ug/L	5.532	
114 Cd	99.599747	3.101			626789.985	ug/L	90.438	
115 In					1329611.746	ug/L	1372150.246	
208 207.977	101.354984	1.197			1342388.590	ug/L	785.369	
207 Pb	98.038839	1.241			556275.428	ug/L	335.006	
206 Pb	100.347312	1.349			745401.139	ug/L	386.675	
169 Tm					966600.778	ug/L	990425.381	
106 Pd	99.539689	2.098			23427.664	ug/L	11.333	
83 Kr	-33.980367	308.731			664.359	ug/L	676.026	
182 W					91.668	ug/L	5.667	

Report Date/Time: Tuesday, November 07, 2006 17:51:54

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	101.000
Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	96.002
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	96.900
Pb	208	
[> Tm-1	169	97.595
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	96.002
Cd	108	
Cd	114	
[> In	115	96.900
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	97.595
Pd	106	
Kr	83	
W	182	

SOP No.: SAC-MT-0001

BJones

**Sample ID: CCB 2**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 17:54:11

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCB 2.022

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc			1269997.256	ug/L	1317562.271	
6 Li-1			319325.056	ug/L	315191.361	
9 Be	0.009806	154.531	3.333	ug/L	1.333	
27 Al	0.605592	41.603	21564.229	ug/L	20070.681	
52 Cr	-0.460195	20.927	29638.121	ug/L	34855.999	
55 Mn	-0.002633	442.151	2053.242	ug/L	2170.269	
59 Co	0.004401	23.428	132.001	ug/L	87.000	
60 Ni	0.001575	292.894	166.237	ug/L	168.875	
65 Cu	0.001404	398.377	210.020	ug/L	214.311	
68 Zn	-0.292168	47.409	1715.502	ug/L	2077.917	
75 As	0.716403	28.643	22756.615	ug/L	21800.666	
72 Ge-1			1177504.175	ug/L	1223397.518	
111 Cd	0.003060	109.276	49.216	ug/L	40.624	
121 Sb	0.004530	53.927	216.336	ug/L	172.002	
135 Ba	0.003911	97.794	291.338	ug/L	281.005	
115 In-1			1372686.614	ug/L	1372150.246	
208 Pb	-0.010662	16.226	1183.365	ug/L	1507.050	
169 Tm-1			961474.883	ug/L	990425.381	
50 Cr	0.279755	19.652	-264.346	ug/L	-332.643	
53 Cr	-5.581224	94.662	46391.702	ug/L	50234.573	
61 Ni	2.023927	61.818	1649.435	ug/L	1631.426	
63 Cu	0.010003	84.674	107.335	ug/L	91.335	
67 Zn	-2.482570	63.848	2328.535	ug/L	2629.440	
66 Zn	-0.205382	52.577	661.404	ug/L	789.101	
72 Ge			1177504.175	ug/L	1223397.518	
108 Cd	0.003851	159.820	6.260	ug/L	5.532	
114 Cd	0.006804	28.589	134.789	ug/L	90.438	
115 In			1372686.614	ug/L	1372150.246	
208 207.977	-0.010813	20.447	620.022	ug/L	785.369	
207 Pb	-0.011796	14.756	258.670	ug/L	335.006	
206 Pb	-0.009527	56.304	304.672	ug/L	386.675	
169 Tm			961474.883	ug/L	990425.381	
106 Pd	0.005668	672.215	12.667	ug/L	11.333	
83 Kr	-1.941655	5034.361	675.359	ug/L	676.026	
182 W			5.000	ug/L	5.667	

Report Date/Time: Tuesday, November 07, 2006 17:55:49

## Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
--------------	--------------------

Sc	45
[> Li-1	6
Be	9
Al	27
Cr	52
Mn	55
Co	59
Ni	60
Cu	65
Zn	68
As	75
[> Ge-1	72
Cd	111
Sb	121
Ba	135
[> In-1	115
Pb	208
[> Tm-1	169
Cr	50
Cr	53
Ni	61
Cu	63
Zn	67
Zn	66
[> Ge	72
Cd	108
Cd	114
[> In	115
207.977	208
Pb	207
Pb	206
[> Tm	169
Pd	106
Kr	83
W	182
*	

BJones

**Sample ID: JHM8CC**

Sample Description: G6K010000-113 LCS

Batch ID: 6305113

Sample Date/Time: Tuesday, November 07, 2006 17:58:03

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\JHM8CC.023

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 101

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1304638.867	ug/L	1317562.271
6 Li-1			334561.861	ug/L	315191.361
9 Be	176.619591	2.119	36562.932	ug/L	1.333
27 Al	1095.249674	3.642	3993132.228	ug/L	20070.681
52 Cr	178.180571	6.148	1507717.073	ug/L	34855.999
55 Mn	187.024626	5.756	2396992.226	ug/L	2170.269
59 Co	179.460688	4.950	1922339.104	ug/L	87.000
60 Ni	193.498246	1.883	450722.893	ug/L	168.875
65 Cu	189.082497	4.499	480869.258	ug/L	214.311
68 Zn	185.953488	1.790	178725.270	ug/L	2077.917
75 As	181.470387	2.227	458885.602	ug/L	21800.666
72 Ge-1			1150202.775	ug/L	1223397.518
111 Cd	180.142133	2.112	482167.766	ug/L	40.624
121 Sb	44.625441	2.303	418827.404	ug/L	172.002
135 Ba	192.830504	2.152	483398.662	ug/L	281.005
115 In-1			1324602.971	ug/L	1372150.246
208 Pb	189.273669	1.224	4954519.181	ug/L	1507.050
169 Tm-1			960671.295	ug/L	990425.381
50 Cr	157.987711	6.717	30400.271	ug/L	-332.643
53 Cr	118.849606	10.658	87668.068	ug/L	50234.573
61 Ni	192.974424	5.784	8932.421	ug/L	1631.426
63 Cu	182.122282	3.712	346019.931	ug/L	91.335
67 Zn	172.426471	0.850	16138.593	ug/L	2629.440
66 Zn	182.698482	3.066	85867.095	ug/L	789.101
72 Ge			1150202.775	ug/L	1223397.518
108 Cd	177.303507	1.401	32604.458	ug/L	5.532
114 Cd	179.473802	0.470	1124971.676	ug/L	90.438
115 In			1324602.971	ug/L	1372150.246
208 207.977	190.432577	0.102	2506464.270	ug/L	785.369
207 Pb	195.481267	1.283	1101953.583	ug/L	335.006
206 Pb	182.466211	3.501	1346101.329	ug/L	386.675
169 Tm			960671.295	ug/L	990425.381
106 Pd	179.528601	1.555	42244.749	ug/L	11.333
83 Kr	-54.368747	82.007	657.358	ug/L	676.026
182 W			92.335	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 17:59:37

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	106.146
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	94.017
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	96.535
Pb	208	
[> Tm-1	169	96.996
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	94.017
Cd	108	
Cd	114	
[> In	115	96.535
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	96.996
Pd	106	
Kr	83	
W	182	

BJones

**Sample ID: JHM8CL**

Sample Description: G6K010000-113 LCSD

Batch ID: 6305113

Sample Date/Time: Tuesday, November 07, 2006 18:01:52

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\JHM8CL.024

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 102

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1302137.448	ug/L	1317562.271
6 Li-1			336931.901	ug/L	315191.361
9 Be	175.318928	2.575	36543.494	ug/L	1.333
27 Al	1068.845940	2.199	3881795.392	ug/L	20070.681
52 Cr	174.426283	3.200	1470952.495	ug/L	34855.999
55 Mn	188.041859	2.487	2401239.313	ug/L	2170.269
59 Co	175.210158	2.711	1869738.719	ug/L	87.000
60 Ni	191.055244	1.070	443200.705	ug/L	168.875
65 Cu	186.618399	1.535	472819.018	ug/L	214.311
68 Zn	180.833321	2.838	173122.473	ug/L	2077.917
75 As	178.021742	1.674	448579.442	ug/L	21800.666
72 Ge-1			1144774.987	ug/L	1223397.518
111 Cd	174.127135	3.181	472249.975	ug/L	40.624
121 Sb	43.172987	2.665	410606.274	ug/L	172.002
135 Ba	182.983176	3.137	464840.407	ug/L	281.005
115 In-1			1342731.202	ug/L	1372150.246
208 Pb	188.429487	0.598	4838202.401	ug/L	1507.050
169 Tm-1			942099.257	ug/L	990425.381
50 Cr	163.234503	8.191	31304.641	ug/L	-332.643
53 Cr	120.866072	7.431	88007.374	ug/L	50234.573
61 Ni	188.824109	0.570	8739.874	ug/L	1631.426
63 Cu	181.299505	1.369	343076.180	ug/L	91.335
67 Zn	166.266069	2.225	15579.431	ug/L	2629.440
66 Zn	180.850319	2.169	84668.748	ug/L	789.101
72 Ge			1144774.987	ug/L	1223397.518
108 Cd	173.430410	5.800	32301.320	ug/L	5.532
114 Cd	174.844387	3.703	1110351.937	ug/L	90.438
115 In			1342731.202	ug/L	1372150.246
208 207.977	189.949885	0.652	2451770.764	ug/L	785.369
207 Pb	196.343003	0.907	1085673.578	ug/L	335.006
206 Pb	179.674582	0.252	1300758.060	ug/L	386.675
169 Tm			942099.257	ug/L	990425.381
106 Pd	178.899335	2.048	42096.717	ug/L	11.333
83 Kr	-127.183845	29.446	632.356	ug/L	676.026
182 W			75.001	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 18:03:27

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
[> Li-1	6	106.898
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	93.573
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	97.856
Pb	208	
[> Tm-1	169	95.121
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	93.573
Cd	108	
Cd	114	
[> In	115	97.856
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	95.121
Pd	106	
Kr	83	
W	182	

**Sample ID: JHM8CB**

Sample Description: G6K010000-113 BLK

Batch ID: 6305113

Sample Date/Time: Tuesday, November 07, 2006 18:17:18

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\JHM8CB.028

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 17

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1288205.167	ug/L	1317562.271
6 Li-1			328384.522	ug/L	315191.361
9 Be	-0.005197	54.654	0.333	ug/L	1.333
27 Al	-1.098977	13.120	14953.437	ug/L	20070.681
52 Cr	-1.299579	6.082	22111.912	ug/L	34855.999
55 Mn	0.242115	6.151	5171.862	ug/L	2170.269
59 Co	0.007271	9.434	160.668	ug/L	87.000
60 Ni	0.184698	3.805	592.026	ug/L	168.875
65 Cu	0.530058	1.886	1558.799	ug/L	214.311
68 Zn	0.638738	37.198	2575.715	ug/L	2077.917
75 As	0.759765	53.909	22440.293	ug/L	21800.666
72 Ge-1			1156477.731	ug/L	1223397.518
111 Cd	-0.000074	3111.077	39.770	ug/L	40.624
121 Sb	0.081959	3.285	953.052	ug/L	172.002
135 Ba	0.459424	1.719	1449.453	ug/L	281.005
115 In-1			1349823.282	ug/L	1372150.246
208 Pb	0.027942	9.289	2225.442	ug/L	1507.050
169 Tm-1			974864.821	ug/L	990425.381
50 Cr	1.428863	11.934	-35.081	ug/L	-332.643
53 Cr	-86.478997	5.272	17857.189	ug/L	50234.573
61 Ni	2.400561	70.622	1635.762	ug/L	1631.426
63 Cu	0.554984	1.433	1147.211	ug/L	91.335
67 Zn	-14.811411	8.220	1305.941	ug/L	2629.440
66 Zn	0.876388	24.772	1155.548	ug/L	789.101
72 Ge			1156477.731	ug/L	1223397.518
108 Cd	0.002383	1005.206	5.902	ug/L	5.532
114 Cd	-0.000477	214.895	85.965	ug/L	90.438
115 In			1349823.282	ug/L	1372150.246
208 207.977	0.027522	15.342	1140.408	ug/L	785.369
207 Pb	0.028769	8.476	494.014	ug/L	335.006
206 Pb	0.028059	9.755	591.020	ug/L	386.675
169 Tm			974864.821	ug/L	990425.381
106 Pd	-0.0008019490329.919		11.333	ug/L	11.333
83 Kr	-98.057640	129.892	642.357	ug/L	676.026
182 W			9.000	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 18:18:55

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
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Sc	45	
> Li-1	6	104.186
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	94.530
Cd	111	
Sb	121	
Ba	135	
> In-1	115	98.373
Pb	208	
> Tm-1	169	98.429
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	94.530
Cd	108	
Cd	114	
> In	115	98.373
207.977	208	
Pb	207	
Pb	206	
> Tm	169	98.429
Pd	106	
Kr	83	
W	182	

Sample ID: JGV93

Sample Description: G6J200154-1

Batch ID: 6305113

Sample Date/Time: Tuesday, November 07, 2006 18:25:03

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\JGV93.030

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 27

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1295382.431	ug/L	1317562.271
6 Li-1			328779.453	ug/L	315191.361
9 Be	0.004534	120.292	2.333	ug/L	1.333
27 Al	240.467557	1.424	891111.556	ug/L	20070.681
52 Cr	0.992754	15.787	40950.998	ug/L	34855.999
55 Mn	8.731749	4.782	113833.869	ug/L	2170.269
59 Co	0.204171	2.643	2268.627	ug/L	87.000
60 Ni	0.834264	6.550	2099.281	ug/L	168.875
65 Cu	12.927502	0.871	33062.999	ug/L	214.311
68 Zn	3.954591	5.832	5708.531	ug/L	2077.917
75 As	0.963754	19.910	22802.668	ug/L	21800.666
72 Ge-1			1148978.584	ug/L	1223397.518
111 Cd	0.030748	36.686	124.772	ug/L	40.624
121 Sb	0.122140	4.941	1349.438	ug/L	172.002
135 Ba	7.111524	2.711	18605.430	ug/L	281.005
115 In-1			1362535.584	ug/L	1372150.246
208 Pb	1.026468	2.725	28084.868	ug/L	1507.050
169 Tm-1			952484.490	ug/L	990425.381
50 Cr	3.765334	27.307	419.022	ug/L	-332.643
53 Cr	-79.530873	8.368	20106.393	ug/L	50234.573
61 Ni	3.532206	55.010	1667.112	ug/L	1631.426
63 Cu	13.012553	4.504	24785.960	ug/L	91.335
67 Zn	-10.692887	22.787	1623.760	ug/L	2629.440
66 Zn	4.224387	3.753	2709.509	ug/L	789.101
72 Ge			1148978.584	ug/L	1223397.518
108 Cd	0.241676	19.488	51.189	ug/L	5.532
114 Cd	0.024844	9.975	249.871	ug/L	90.438
115 In			1362535.584	ug/L	1372150.246
208 207.977	1.072440	3.634	14743.417	ug/L	785.369
207 Pb	1.039999	1.009	6134.483	ug/L	335.006
206 Pb	0.934172	2.501	7206.968	ug/L	386.675
169 Tm			952484.490	ug/L	990425.381
106 Pd	0.522861	17.138	134.334	ug/L	11.333
83 Kr	-89.320008	57.629	645.357	ug/L	676.026
182 W			425.696	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 18:26:38

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G6J200155 Sample ID: JGV93

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
> Li-1	6	104.311
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	93.917
Cd	111	
Sb	121	
Ba	135	
> In-1	115	99.299
Pb	208	
> Tm-1	169	96.169
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	93.917
Cd	108	
Cd	114	
> In	115	99.299
207.977	208	
Pb	207	
Pb	206	
> Tm	169	96.169
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: JGV93P5**

Sample Description: G6J200154-1 5X

Batch ID: 6305113

Sample Date/Time: Tuesday, November 07, 2006 18:28:53

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\JGV93P5.031

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 28

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1307144.181	ug/L	1317562.271	
6 Li-1					330153.652	ug/L	315191.361	
9 Be	0.001337	425.741			1.667	ug/L	1.333	
27 Al	49.937905	3.450			205238.284	ug/L	20070.681	
52 Cr	0.415383	52.327			37109.912	ug/L	34855.999	
55 Mn	2.462591	6.489			34437.009	ug/L	2170.269	
59 Co	0.050902	10.253			642.690	ug/L	87.000	
60 Ni	0.212014	10.817			668.294	ug/L	168.875	
65 Cu	2.842651	2.800			7622.579	ug/L	214.311	
68 Zn	11.789824	0.176			13502.083	ug/L	2077.917	
75 As	0.448395	46.112			22128.497	ug/L	21800.666	
72 Ge-1					1179643.523	ug/L	1223397.518	
111 Cd	0.009648	55.626			66.597	ug/L	40.624	
121 Sb	0.104083	5.427			1168.078	ug/L	172.002	
135 Ba	1.466809	4.402			4033.930	ug/L	281.005	
115 In-1					1354317.727	ug/L	1372150.246	
208 Pb	0.344977	2.471			10547.112	ug/L	1507.050	
169 Tm-1					965747.530	ug/L	990425.381	
50 Cr	0.911259	10.131			-138.471	ug/L	-332.643	
53 Cr	-16.723954	33.517			42573.368	ug/L	50234.573	
61 Ni	4.719323	93.713			1755.495	ug/L	1631.426	
63 Cu	2.828759	3.269			5600.013	ug/L	91.335	
67 Zn	6.882816	17.296			3093.531	ug/L	2629.440	
66 Zn	12.660440	4.018			6813.092	ug/L	789.101	
72 Ge					1179643.523	ug/L	1223397.518	
108 Cd	0.031116	80.398			11.274	ug/L	5.532	
114 Cd	0.005785	71.434			126.547	ug/L	90.438	
115 In					1354317.727	ug/L	1372150.246	
208 Pb	0.353979	3.308			5448.364	ug/L	785.369	
207 Pb	0.357484	4.490			2351.983	ug/L	335.006	
206 Pb	0.319374	0.939			2746.765	ug/L	386.675	
169 Tm					965747.530	ug/L	990425.381	
106 Pd	0.150198	15.587			46.667	ug/L	11.333	
83 Kr	-43.689191	86.667			661.025	ug/L	676.026	
182 W					98.668	ug/L	5.667	

Report Date/Time: Tuesday, November 07, 2006 18:30:28

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	104.747
Be	9	
[ Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	96.424
[ Cd	111	
Sb	121	
Ba	135	
[> In-1	115	98.700
[ Pb	208	
[> Tm-1	169	97.508
[ Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	96.424
[ Cd	108	
Cd	114	
[> In	115	98.700
[ 207.977	208	
Pb	207	
Pb	206	
[> Tm	169	97.508
Pd	106	
Kr	83	
W	182	

BJones

**Sample ID: JGV93Z**

Sample Description: G6J200154-1 PS

Batch ID: 6305113

Sample Date/Time: Tuesday, November 07, 2006 18:32:43

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\JGV93Z.032

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 29

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1292733.392	ug/L	1317562.271
6 Li-1			329518.842	ug/L	315191.361
9 Be	190.923488	0.760	38932.461	ug/L	1.333
27 Al	1354.380830	3.567	4885578.310	ug/L	20070.681
52 Cr	191.423891	3.459	1602378.937	ug/L	34855.999
55 Mn	206.383043	3.783	2620479.156	ug/L	2170.269
59 Co	189.894048	1.907	2015474.852	ug/L	87.000
60 Ni	208.170116	3.948	479959.938	ug/L	168.875
65 Cu	217.474399	2.115	547902.991	ug/L	214.311
68 Zn	214.323762	1.335	203671.706	ug/L	2077.917
75 As	197.483742	1.377	492782.190	ug/L	21800.666
72 Ge-1			1138617.954	ug/L	1223397.518
111 Cd	186.917490	3.149	505673.593	ug/L	40.624
121 Sb	47.152070	1.996	447283.450	ug/L	172.002
135 Ba	203.907593	1.925	516733.634	ug/L	281.005
115 In-1			1339116.211	ug/L	1372150.246
208 Pb	197.164215	1.545	5122836.505	ug/L	1507.050
169 Tm-1			953541.299	ug/L	990425.381
50 Cr	178.752193	11.384	34090.596	ug/L	-332.643
53 Cr	139.044502	7.134	93638.959	ug/L	50234.573
61 Ni	211.299659	5.356	9541.551	ug/L	1631.426
63 Cu	209.934573	3.260	395024.536	ug/L	91.335
67 Zn	199.027922	2.916	18064.763	ug/L	2629.440
66 Zn	216.277011	0.806	100551.600	ug/L	789.101
72 Ge			1138617.954	ug/L	1223397.518
108 Cd	190.373846	1.684	35384.598	ug/L	5.532
114 Cd	185.934624	3.091	1178113.030	ug/L	90.438
115 In			1339116.211	ug/L	1372150.246
208 207.977	200.153769	0.698	2614496.729	ug/L	785.369
207 Pb	203.252709	1.083	1137479.910	ug/L	335.006
206 Pb	187.183922	3.936	1370859.867	ug/L	386.675
169 Tm			953541.299	ug/L	990425.381
106 Pd	194.032836	0.987	45656.815	ug/L	11.333
83 Kr	26.213586	306.916	685.027	ug/L	676.026
182 W			502.040	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 18:34:19

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
[> Li-1	6	104.546
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	93.070
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	97.593
Pb	208	
[> Tm-1	169	96.276
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	93.070
Cd	108	
Cd	114	
[> In	115	97.593
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	96.276
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCV 3**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 18:36:35

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCV 3.033

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1275658.622	ug/L	1317562.271	
6 Li-1					326314.504	ug/L	315191.361	
9 Be	96.035331	2.384			19391.137	ug/L	1.333	
27 Al	5118.752144	3.102			19334474.229	ug/L	20070.681	
52 Cr	97.729337	2.849			875511.726	ug/L	34855.999	
55 Mn	99.889453	2.237			1332775.251	ug/L	2170.269	
59 Co	97.761711	3.586			1089115.255	ug/L	87.000	
60 Ni	98.590150	4.534			238753.304	ug/L	168.875	
65 Cu	98.200664	1.512			259863.196	ug/L	214.311	
68 Zn	100.743809	2.481			101573.538	ug/L	2077.917	
75 As	98.932636	1.707			269713.538	ug/L	21800.666	
72 Ge-1					1195059.166	ug/L	1223397.518	
111 Cd	100.518688	1.646			266621.043	ug/L	40.624	
121 Sb	50.724731	1.913			471670.137	ug/L	172.002	
135 Ba	101.127341	1.966			251340.117	ug/L	281.005	
115 In-1					1312471.759	ug/L	1372150.246	
208 Pb	103.256989	1.481			2655797.892	ug/L	1507.050	
169 Tm-1					943607.274	ug/L	990425.381	
50 Cr	89.381300	7.915			17762.834	ug/L	-332.643	
53 Cr	86.360149	3.948			79656.828	ug/L	50234.573	
61 Ni	96.411764	5.274			5439.068	ug/L	1631.426	
63 Cu	97.430983	2.297			192545.880	ug/L	91.335	
67 Zn	100.335372	1.885			10832.749	ug/L	2629.440	
66 Zn	100.165663	1.708			49302.414	ug/L	789.101	
72 Ge					1195059.166	ug/L	1223397.518	
108 Cd	98.742014	2.334			17992.908	ug/L	5.532	
114 Cd	100.581303	0.500			624719.353	ug/L	90.438	
115 In					1312471.759	ug/L	1372150.246	
208 207.977	104.762992	1.669			1354489.954	ug/L	785.369	
207 Pb	100.998567	1.289			559473.650	ug/L	335.006	
206 Pb	102.296929	1.452			741834.288	ug/L	386.675	
169 Tm					943607.274	ug/L	990425.381	
106 Pd	98.199906	0.301			23112.485	ug/L	11.333	
83 Kr	-41.747466	40.280			661.692	ug/L	676.026	
182 W					103.335	ug/L	5.667	

Report Date/Time: Tuesday, November 07, 2006 18:38:12

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
> Li-1	6	103.529
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	97.684
Cd	111	
Sb	121	
Ba	135	
> In-1	115	95.651
Pb	208	
> Tm-1	169	95.273
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	97.684
Cd	108	
Cd	114	
> In	115	95.651
207.977	208	
Pb	207	
Pb	206	
> Tm	169	95.273
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCB 3**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 18:40:29

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCB 3.034

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1301611.231	ug/L	1317562.271
6 Li-1			328233.567	ug/L	315191.361
9 Be	0.011195	49.513	3.667	ug/L	1.333
27 Al	0.326076	63.404	20859.840	ug/L	20070.681
52 Cr	-0.313921	53.550	31378.526	ug/L	34855.999
55 Mn	-0.002413	361.615	2090.583	ug/L	2170.269
59 Co	0.006126	25.800	153.335	ug/L	87.000
60 Ni	0.012481	9.212	195.513	ug/L	168.875
65 Cu	0.003759	53.520	219.733	ug/L	214.311
68 Zn	-0.106469	70.005	1926.879	ug/L	2077.917
75 As	0.260755	82.858	21981.424	ug/L	21800.666
72 Ge-1			1197058.486	ug/L	1223397.518
111 Cd	0.007218	88.802	60.755	ug/L	40.624
121 Sb	0.085237	2.639	999.724	ug/L	172.002
135 Ba	0.010436	102.900	308.005	ug/L	281.005
115 In-1			1371229.068	ug/L	1372150.246
208 Pb	-0.005511	33.350	1300.037	ug/L	990425.381
169 Tm-1			947776.603	ug/L	
50 Cr	0.340403	38.422	-256.132	ug/L	-332.643
53 Cr	-11.358582	63.321	45093.360	ug/L	50234.573
61 Ni	-0.693514	361.743	1567.727	ug/L	1631.426
63 Cu	-0.000527	302.644	88.335	ug/L	91.335
67 Zn	-2.077805	95.455	2399.589	ug/L	2629.440
66 Zn	-0.065630	245.477	739.421	ug/L	789.101
72 Ge			1197058.486	ug/L	1223397.518
108 Cd	0.007944	365.607	7.112	ug/L	5.532
114 Cd	0.004675	61.048	120.773	ug/L	90.438
115 In			1371229.068	ug/L	1372150.246
208 207.977	-0.007216	20.012	658.025	ug/L	785.369
207 Pb	-0.006222	55.907	286.005	ug/L	335.006
206 Pb	-0.001929	136.687	356.007	ug/L	386.675
169 Tm			947776.603	ug/L	990425.381
106 Pd	0.022671	88.609	16.667	ug/L	11.333
83 Kr	4.854383	1427.858	677.693	ug/L	676.026
182 W			7.000	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 18:42:07

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	104.138
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	97.847
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	99.933
Pb	208	
[> Tm-1	169	95.694
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	97.847
Cd	108	
Cd	114	
[> In	115	99.933
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	95.694
Pd	106	
Kr	83	
W	182	

BJones

**Sample ID: CCV 4**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 18:44:23

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCV 4.035

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc			1282335.028	ug/L	1317562.271	
6 Li-1			321541.620	ug/L	315191.361	
9 Be	97.772060	2.612	19451.268	ug/L	1.333	
27 Al	4897.670971	5.568	18588173.187	ug/L	20070.681	
52 Cr	97.558036	6.677	878158.592	ug/L	34855.999	
55 Mn	102.228512	3.451	1371155.535	ug/L	2170.269	
59 Co	97.192319	1.328	1089347.892	ug/L	87.000	
60 Ni	98.028280	2.378	238707.098	ug/L	168.875	
65 Cu	97.845805	1.334	260399.706	ug/L	214.311	
68 Zn	97.416853	1.653	98827.817	ug/L	2077.917	
75 As	99.942711	3.023	273689.974	ug/L	21800.666	
72 Ge-1			1202072.610	ug/L	1223397.518	
111 Cd	96.173966	3.163	260311.739	ug/L	40.624	
121 Sb	49.428888	2.899	469011.932	ug/L	172.002	
135 Ba	98.351499	2.924	249527.490	ug/L	281.005	
115 In-1			1339761.044	ug/L	1372150.246	
208 Pb	102.267963	2.128	2674927.010	ug/L	1507.050	
169 Tm-1			959715.624	ug/L	990425.381	
50 Cr	89.685433	16.994	17858.365	ug/L	-332.643	
53 Cr	82.474377	7.445	78692.943	ug/L	50234.573	
61 Ni	92.875198	5.427	5324.533	ug/L	1631.426	
63 Cu	97.953034	0.759	194687.782	ug/L	91.335	
67 Zn	94.996708	1.203	10454.474	ug/L	2629.440	
66 Zn	97.885260	2.311	48451.761	ug/L	789.101	
72 Ge			1202072.610	ug/L	1223397.518	
108 Cd	96.976398	4.213	18029.262	ug/L	5.532	
114 Cd	98.472017	2.454	624122.909	ug/L	90.438	
115 In			1339761.044	ug/L	1372150.246	
208 207.977	102.900031	2.583	1352850.095	ug/L	785.369	
207 Pb	100.324766	2.584	565085.318	ug/L	335.006	
206 Pb	102.625251	1.837	756991.597	ug/L	386.675	
169 Tm			959715.624	ug/L	990425.381	
106 Pd	96.574732	2.975	22730.169	ug/L	11.333	
83 Kr	12.621490	972.876	680.360	ug/L	676.026	
182 W			98.668	ug/L	5.667	

Report Date/Time: Tuesday, November 07, 2006 18:46:00

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	102.015
[  Be	9	
[  Al	27	
[  Cr	52	
[  Mn	55	
[  Co	59	
[  Ni	60	
[  Cu	65	
[  Zn	68	
[  As	75	
[> Ge-1	72	98.257
[  Cd	111	
[  Sb	121	
[  Ba	135	
[> In-1	115	97.640
[  Pb	208	
[> Tm-1	169	96.899
[  Cr	50	
[  Cr	53	
[  Ni	61	
[  Cu	63	
[  Zn	67	
[  Zn	66	
[> Ge	72	98.257
[  Cd	108	
[  Cd	114	
[> In	115	97.640
[  207.977	208	
[  Pb	207	
[  Pb	206	
[> Tm	169	96.899
Pd	106	
Kr	83	
W	182	

BJones

**Sample ID: CCB 4**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 18:48:17

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCB 4.036

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1279237.207	ug/L	1317562.271
6 Li-1			326279.335	ug/L	315191.361
9 Be	0.012900	34.598	4.000	ug/L	1.333
27 Al	0.552399	41.255	21528.125	ug/L	20070.681
52 Cr	-0.480696	9.983	29695.641	ug/L	34855.999
55 Mn	-0.006428	69.593	2020.233	ug/L	2170.269
59 Co	0.006695	23.639	158.335	ug/L	87.000
60 Ni	0.014264	21.823	198.148	ug/L	168.875
65 Cu	0.010912	53.119	236.539	ug/L	214.311
68 Zn	-0.361196	17.620	1661.158	ug/L	2077.917
75 As	0.671323	36.785	22813.932	ug/L	21800.666
72 Ge-1			1186752.363	ug/L	1223397.518
111 Cd	0.006534	93.477	58.138	ug/L	40.624
121 Sb	0.041249	12.239	564.352	ug/L	172.002
135 Ba	0.003776	195.622	286.671	ug/L	281.005
115 In-1			1353957.940	ug/L	1372150.246
208 Pb	-0.008443	21.306	1237.367	ug/L	1507.050
169 Tm-1			958107.484	ug/L	990425.381
50 Cr	0.300319	17.455	-262.490	ug/L	-332.643
53 Cr	-11.303578	41.309	44750.111	ug/L	50234.573
61 Ni	-1.103928	123.104	1539.046	ug/L	1631.426
63 Cu	0.006968	52.030	102.335	ug/L	91.335
67 Zn	-2.318220	33.880	2361.226	ug/L	2629.440
66 Zn	-0.278516	13.017	631.397	ug/L	789.101
72 Ge			1186752.363	ug/L	1223397.518
108 Cd	0.018355	137.796	8.865	ug/L	5.532
114 Cd	0.007381	29.858	136.528	ug/L	90.438
115 In			1353957.940	ug/L	1372150.246
208 207.977	-0.009716	27.730	632.023	ug/L	785.369
207 Pb	-0.011392	5.719	260.004	ug/L	335.006
206 Pb	-0.003919	82.187	345.340	ug/L	386.675
169 Tm			958107.484	ug/L	990425.381
106 Pd	0.008502	28.868	13.333	ug/L	11.333
83 Kr	-9.708738	295.972	672.693	ug/L	676.026
182 W			6.667	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 18:49:55

## Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	103.518
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	97.005
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	98.674
Pb	208	
[> Tm-1	169	96.737
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	97.005
Cd	108	
Cd	114	
[> In	115	98.674
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	96.737
Pd	106	
Kr	83	
W	182	

BJones

**Sample ID: JGWAN**

Sample Description: G6J200155-1

Batch ID: 6305113

Sample Date/Time: Tuesday, November 07, 2006 19:07:36

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\JGWAN.041

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 34

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1320123.887	ug/L	1317562.271
6 Li-1			331886.072	ug/L	315191.361
9 Be	0.010756	132.900	3.667	ug/L	1.333
27 Al	134.759766	0.991	513246.652	ug/L	20070.681
52 Cr	1.144024	23.315	42641.754	ug/L	34855.999
55 Mn	4.288564	3.757	57566.812	ug/L	2170.269
59 Co	0.366362	4.255	4047.937	ug/L	87.000
60 Ni	0.986365	1.786	2479.984	ug/L	168.875
65 Cu	7.577803	4.741	19669.419	ug/L	214.311
68 Zn	3.362789	5.234	5200.212	ug/L	2077.917
75 As	0.995744	12.064	23125.257	ug/L	21800.666
72 Ge-1			1161330.299	ug/L	1223397.518
111 Cd	0.007313	168.903	59.386	ug/L	40.624
121 Sb	0.078694	5.302	916.048	ug/L	172.002
135 Ba	3.099499	2.275	8140.119	ug/L	281.005
115 In-1			1341477.765	ug/L	1372150.246
208 Pb	0.894231	2.269	24332.138	ug/L	1507.050
169 Tm-1			940420.714	ug/L	990425.381
50 Cr	3.389556	9.363	351.140	ug/L	-332.643
53 Cr	-76.642715	10.542	21286.235	ug/L	50234.573
61 Ni	2.307237	14.066	1638.096	ug/L	1631.426
63 Cu	7.726147	2.418	14917.203	ug/L	91.335
67 Zn	-11.838344	17.337	1547.052	ug/L	2629.440
66 Zn	3.716435	7.053	2498.667	ug/L	789.101
72 Ge			1161330.299	ug/L	1223397.518
108 Cd	0.878287	7.852	169.015	ug/L	5.532
114 Cd	0.023961	7.189	240.470	ug/L	90.438
115 In			1341477.765	ug/L	1372150.246
208 207.977	0.930763	1.676	12730.257	ug/L	785.369
207 Pb	0.892452	4.452	5238.235	ug/L	335.006
206 Pb	0.830457	2.636	6363.647	ug/L	386.675
169 Tm			940420.714	ug/L	990425.381
106 Pd	1.166174	11.119	285.671	ug/L	11.333
83 Kr	-50.485288	50.405	658.691	ug/L	676.026
182 W			464.701	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 19:09:12

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G6J200155

Sample ID: JGWAN

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
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Sc	45	
[> Li-1	6	105.297
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	94.927
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	97.765
Pb	208	
[> Tm-1	169	94.951
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	94.927
Cd	108	
Cd	114	
[> In	115	97.765
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	94.951
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: JGAWA**

Sample Description: G6J200155-2

Batch ID: 6305113

Sample Date/Time: Tuesday, November 07, 2006 19:11:28

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\JGAWA.042

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 35

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1287442.046	ug/L	1317562.271	
6 Li-1					330584.830	ug/L	315191.361	
9 Be	-0.000310	2411.202			1.333	ug/L	1.333	
27 Al	132.351902	5.756			507448.717	ug/L	20070.681	
52 Cr	0.811233	23.331			40130.847	ug/L	34855.999	
55 Mn	4.320345	2.820			58374.408	ug/L	2170.269	
59 Co	0.382847	1.548			4257.036	ug/L	87.000	
60 Ni	0.855172	4.146			2186.761	ug/L	168.875	
65 Cu	5.830466	0.559			15289.149	ug/L	214.311	
68 Zn	3.264662	8.155			5140.178	ug/L	2077.917	
75 As	0.874800	45.138			22971.843	ug/L	21800.666	
72 Ge-1					1169427.799	ug/L	1223397.518	
111 Cd	0.029143	50.019			119.468	ug/L	40.624	
121 Sb	0.085670	1.935			983.722	ug/L	172.002	
135 Ba	3.165416	6.037			8315.954	ug/L	281.005	
115 In-1					1343780.832	ug/L	1372150.246	
208 Pb	0.809496	3.558			22483.526	ug/L	1507.050	
169 Tm-1					954056.226	ug/L	990425.381	
50 Cr	2.937665	3.059			263.859	ug/L	-332.643	
53 Cr	-76.677982	9.946			21442.707	ug/L	50234.573	
61 Ni	0.106202	603.812			1563.725	ug/L	1631.426	
63 Cu	5.900615	2.557			11488.415	ug/L	91.335	
67 Zn	-11.968983	15.553			1549.387	ug/L	2629.440	
66 Zn	3.526266	0.576			2425.942	ug/L	789.101	
72 Ge					1169427.799	ug/L	1223397.518	
108 Cd	0.389782	36.146			77.772	ug/L	5.532	
114 Cd	0.025470	17.509			250.118	ug/L	90.438	
115 In					1343780.832	ug/L	1372150.246	
208 207.977	0.840819	4.347			11737.538	ug/L	785.369	
207 Pb	0.823904	4.048			4931.723	ug/L	335.006	
206 Pb	0.742646	2.333			5814.265	ug/L	386.675	
169 Tm					954056.226	ug/L	990425.381	
106 Pd	0.675895	5.495			170.335	ug/L	11.333	
83 Kr	-143.688432	75.907			626.689	ug/L	676.026	
182 W					459.701	ug/L	5.667	

Report Date/Time: Tuesday, November 07, 2006 19:13:05

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G6J200155 Sample ID: JGAWA

STL Sacramento (916) 373 - 5600

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
[> Li-1	6	104.884
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	95.589
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	97.932
Pb	208	
[> Tm-1	169	96.328
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	95.589
Cd	108	
Cd	114	
[> In	115	97.932
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	96.328
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: JGWA0**

Sample Description: G6J200155-3

Batch ID: 6305113

Sample Date/Time: Tuesday, November 07, 2006 19:15:22

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\JGWA0.043

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 36

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1300898.923	ug/L	1317562.271	
6 Li-1					340273.475	ug/L	315191.361	
9 Be	0.004259	172.401			2.333	ug/L	1.333	
27 Al	247.528395	5.826			935727.754	ug/L	20070.681	
52 Cr	0.886414	22.086			40886.704	ug/L	34855.999	
55 Mn	8.950963	1.951			119072.427	ug/L	2170.269	
59 Co	0.555785	1.036			6159.501	ug/L	87.000	
60 Ni	0.820316	0.506			2109.945	ug/L	168.875	
65 Cu	22.218681	0.546			57847.195	ug/L	214.311	
68 Zn	5.123012	1.559			6957.432	ug/L	2077.917	
75 As	1.631516	11.696			24909.860	ug/L	21800.666	
72 Ge-1					1172546.072	ug/L	1223397.518	
111 Cd	0.032204	14.399			127.784	ug/L	40.624	
121 Sb	0.111683	2.731			1237.421	ug/L	172.002	
135 Ba	4.837752	0.826			12635.784	ug/L	281.005	
115 In-1					1350610.814	ug/L	1372150.246	
208 Pb	1.107380	1.829			30264.624	ug/L	1507.050	
169 Tm-1					955237.552	ug/L	990425.381	
50 Cr	3.657002	13.873			407.026	ug/L	-332.643	
53 Cr	-77.302341	9.656			21280.542	ug/L	50234.573	
61 Ni	-2.232154	72.237			1476.016	ug/L	1631.426	
63 Cu	22.356041	0.165			43415.543	ug/L	91.335	
67 Zn	-10.661698	18.648			1658.776	ug/L	2629.440	
66 Zn	5.532228	0.691			3385.833	ug/L	789.101	
72 Ge					1172546.072	ug/L	1223397.518	
108 Cd	0.464269	25.482			92.676	ug/L	5.532	
114 Cd	0.030675	9.365			284.891	ug/L	90.438	
115 In					1350610.814	ug/L	1372150.246	
208 207.977	1.150779	1.454			15809.606	ug/L	785.369	
207 Pb	1.114914	2.160			6569.465	ug/L	335.006	
206 Pb	1.024250	3.153			7885.553	ug/L	386.675	
169 Tm					955237.552	ug/L	990425.381	
106 Pd	0.847350	4.055			210.669	ug/L	11.333	
83 Kr	-196.115129	56.481			608.688	ug/L	676.026	
182 W					461.701	ug/L	5.667	

Report Date/Time: Tuesday, November 07, 2006 19:16:59

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
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Sc	45	
> Li-1	6	107.958
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	95.843
Cd	111	
Sb	121	
Ba	135	
> In-1	115	98.430
Pb	208	
> Tm-1	169	96.447
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	95.843
Cd	108	
Cd	114	
> In	115	98.430
207.977	208	
Pb	207	
Pb	206	
> Tm	169	96.447
Pd	106	
Kr	83	
W	182	

Sample ID: JGWA1

Sample Description: G6J200155-4

Batch ID: 6305113

Sample Date/Time: Tuesday, November 07, 2006 19:19:15

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\JGWA1.044

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 37

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1267517.799	ug/L	1317562.271
6 Li-1			335580.993	ug/L	315191.361
9 Be	0.020522	49.354	5.667	ug/L	1.333
27 Al	142.417393	5.098	548899.910	ug/L	20070.681
52 Cr	0.656534	35.835	39122.633	ug/L	34855.999
55 Mn	3.982461	4.590	54381.171	ug/L	2170.269
59 Co	0.446946	8.054	4988.424	ug/L	87.000
60 Ni	1.118264	3.728	2832.002	ug/L	168.875
65 Cu	7.923346	3.012	20858.341	ug/L	214.311
68 Zn	3.071293	6.901	4995.094	ug/L	2077.917
75 As	0.941909	33.951	23322.467	ug/L	21800.666
72 Ge-1			1178679.173	ug/L	1223397.518
111 Cd	0.022978	18.558	104.745	ug/L	40.624
121 Sb	0.069589	1.365	851.708	ug/L	172.002
135 Ba	2.815635	1.908	7619.984	ug/L	281.005
115 In-1			1377656.802	ug/L	1372150.246
208 Pb	0.905838	1.337	24782.839	ug/L	1507.050
169 Tm-1			945968.093	ug/L	990425.381
50 Cr	3.116472	7.329	300.914	ug/L	-332.643
53 Cr	-77.991541	9.120	21143.897	ug/L	50234.573
61 Ni	-0.394779	431.132	1555.054	ug/L	1631.426
63 Cu	8.111420	5.429	15875.577	ug/L	91.335
67 Zn	-12.046483	24.251	1554.393	ug/L	2629.440
66 Zn	3.235260	8.151	2307.855	ug/L	789.101
72 Ge			1178679.173	ug/L	1223397.518
108 Cd	0.289317	10.501	60.881	ug/L	5.532
114 Cd	0.025344	2.059	256.008	ug/L	90.438
115 In			1377656.802	ug/L	1372150.246
208 207.977	0.932664	1.363	12831.736	ug/L	785.369
207 Pb	0.939511	2.223	5533.750	ug/L	335.006
206 Pb	0.832290	0.802	6417.353	ug/L	386.675
169 Tm			945968.093	ug/L	990425.381
106 Pd	0.495938	3.090	128.001	ug/L	11.333
83 Kr	-59.223118	15.809	655.691	ug/L	676.026
182 W			497.040	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 19:20:52

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
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Sc	45	
> Li-1	6	106.469
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	96.345
Cd	111	
Sb	121	
Ba	135	
> In-1	115	100.401
Pb	208	
> Tm-1	169	95.511
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	96.345
Cd	108	
Cd	114	
> In	115	100.401
207.977	208	
Pb	207	
Pb	206	
> Tm	169	95.511
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: JGWA2**

Sample Description: G6J200155-5

Batch ID: 6305113

Sample Date/Time: Tuesday, November 07, 2006 19:23:09

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\JGWA2.045

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 38

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc			1271575.410	ug/L	1317562.271	
6 Li-1			329308.602	ug/L	315191.361	
9 Be	0.020950	26.067	5.667	ug/L	1.333	
27 Al	393.051590	4.772	1470975.979	ug/L	20070.681	
52 Cr	0.503121	21.854	37590.978	ug/L	34855.999	
55 Mn	14.375894	2.302	189594.104	ug/L	2170.269	
59 Co	0.419441	0.987	4660.575	ug/L	87.000	
60 Ni	0.950541	4.618	2415.292	ug/L	168.875	
65 Cu	40.172517	0.957	104242.083	ug/L	214.311	
68 Zn	6.664927	7.011	8441.083	ug/L	2077.917	
75 As	1.450222	9.481	24417.003	ug/L	21800.666	
72 Ge-1			1170343.428	ug/L	1223397.518	
111 Cd	0.046370	13.135	165.589	ug/L	40.624	
121 Sb	0.109703	1.696	1211.417	ug/L	172.002	
135 Ba	6.590778	3.303	17010.523	ug/L	281.005	
115 In-1			1342734.207	ug/L	1372150.246	
208 Pb	1.204369	2.239	33104.131	ug/L	1507.050	
169 Tm-1			964313.525	ug/L	990425.381	
50 Cr	4.784267	9.167	630.061	ug/L	-332.643	
53 Cr	-78.173110	7.905	20961.353	ug/L	50234.573	
61 Ni	0.209835	533.445	1568.727	ug/L	1631.426	
63 Cu	40.332038	1.712	78116.981	ug/L	91.335	
67 Zn	-8.873290	19.040	1800.855	ug/L	2629.440	
66 Zn	6.887767	4.126	4022.590	ug/L	789.101	
72 Ge			1170343.428	ug/L	1223397.518	
108 Cd	0.186451	28.381	40.093	ug/L	5.532	
114 Cd	0.030547	12.030	282.530	ug/L	90.438	
115 In			1342734.207	ug/L	1372150.246	
208 207.977	1.241019	3.262	17150.462	ug/L	785.369	
207 Pb	1.220182	3.929	7227.318	ug/L	335.006	
206 Pb	1.126949	1.474	8726.352	ug/L	386.675	
169 Tm			964313.525	ug/L	990425.381	
106 Pd	0.636219	7.227	161.001	ug/L	11.333	
83 Kr	-100.970415	54.833	641.357	ug/L	676.026	
182 W			246.676	ug/L	5.667	

Report Date/Time: Tuesday, November 07, 2006 19:24:46

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	104.479
Be	9	
> Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	95.663
Cd	111	
Sb	121	
Ba	135	
> In-1	115	97.856
Pb	208	
> Tm-1	169	97.364
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	95.663
Cd	108	
Cd	114	
> In	115	97.856
207.977	208	
Pb	207	
Pb	206	
> Tm	169	97.364
Pd	106	
Kr	83	
W	182	

BJones

**Sample ID: CCV 5**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 19:27:03

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCV 5.046

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1243818.839	ug/L	1317562.271
6 Li-1			316462.770	ug/L	315191.361
9 Be	98.165419	1.815	19227.118	ug/L	1.333
27 Al	4874.682121	1.338	18109335.300	ug/L	20070.681
52 Cr	99.964570	2.722	879810.515	ug/L	34855.999
55 Mn	103.608337	1.158	1359625.295	ug/L	2170.269
59 Co	99.330810	3.253	1088453.343	ug/L	87.000
60 Ni	100.035750	4.260	238218.196	ug/L	168.875
65 Cu	100.221180	3.576	260796.018	ug/L	214.311
68 Zn	100.258487	1.697	99397.489	ug/L	2077.917
75 As	100.432454	1.800	269017.880	ug/L	21800.666
72 Ge-1			1175255.597	ug/L	1223397.518
111 Cd	96.478680	4.543	262652.139	ug/L	40.624
121 Sb	49.490164	4.549	472318.063	ug/L	172.002
135 Ba	96.696066	4.332	246669.806	ug/L	281.005
115 In-1			1347944.495	ug/L	1372150.246
208 Pb	102.206995	2.561	2618802.767	ug/L	1507.050
169 Tm-1			940245.475	ug/L	990425.381
50 Cr	96.872359	3.556	18947.730	ug/L	-332.643
53 Cr	97.082696	7.446	82063.771	ug/L	50234.573
61 Ni	98.863986	9.771	5442.415	ug/L	1631.426
63 Cu	98.703024	2.858	191762.237	ug/L	91.335
67 Zn	97.023566	5.180	10383.911	ug/L	2629.440
66 Zn	101.692198	3.208	49202.276	ug/L	789.101
72 Ge			1175255.597	ug/L	1223397.518
108 Cd	98.215172	2.347	18375.584	ug/L	5.532
114 Cd	97.476412	3.654	621421.603	ug/L	90.438
115 In			1347944.495	ug/L	1372150.246
208 207.977	102.547950	2.314	1320908.176	ug/L	785.369
207 Pb	100.716401	3.185	555663.555	ug/L	335.006
206 Pb	102.737610	2.702	742231.035	ug/L	386.675
169 Tm			940245.475	ug/L	990425.381
106 Pd	98.187130	1.137	23109.479	ug/L	11.333
83 Kr	-81.553084	39.770	648.024	ug/L	676.026
182 W			104.002	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 19:28:40

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Sample ID: CCV 5

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	100.403
[  Be	9	
[  Al	27	
[  Cr	52	
[  Mn	55	
[  Co	59	
[  Ni	60	
[  Cu	65	
[  Zn	68	
[  As	75	
[> Ge-1	72	96.065
[  Cd	111	
[  Sb	121	
[  Ba	135	
[> In-1	115	98.236
[  Pb	208	
[> Tm-1	169	94.933
[  Cr	50	
[  Cr	53	
[  Ni	61	
[  Cu	63	
[  Zn	67	
[  Zn	66	
[> Ge	72	96.065
[  Cd	108	
[  Cd	114	
[> In	115	98.236
[  207.977	208	
[  Pb	207	
[  Pb	206	
[> Tm	169	94.933
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCB 5**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 19:30:56

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCB 5.047

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1256064.241	ug/L	1317562.271	
6 Li-1					326092.359	ug/L	315191.361	
9 Be	0.022995	24.993			6.000	ug/L	1.333	
27 Al	0.358644	35.409			21118.469	ug/L	20070.681	
52 Cr	-0.320147	22.570			31523.020	ug/L	34855.999	
55 Mn	-0.000284	950.510			2131.926	ug/L	2170.269	
59 Co	0.008137	7.515			177.002	ug/L	87.000	
60 Ni	0.008114	57.523			185.983	ug/L	168.875	
65 Cu	0.003040	232.822			219.115	ug/L	214.311	
68 Zn	-0.289754	12.119			1756.510	ug/L	2077.917	
75 As	0.286096	67.859			22178.808	ug/L	21800.666	
72 Ge-1					1204027.955	ug/L	1223397.518	
111 Cd	0.008661	63.399			63.745	ug/L	40.624	
121 Sb	0.013685	25.500			301.672	ug/L	172.002	
135 Ba	0.001613	411.678			282.005	ug/L	281.005	
115 In-1					1358106.038	ug/L	1372150.246	
208 Pb	-0.004726	84.090			1313.372	ug/L	1507.050	
169 Tm-1					943357.983	ug/L	990425.381	
50 Cr	0.295384	62.567			-267.326	ug/L	-332.643	
53 Cr	-10.406072	35.498			45731.796	ug/L	50234.573	
61 Ni	-3.856246	47.301			1450.337	ug/L	1631.426	
63 Cu	0.008588	28.016			107.002	ug/L	91.335	
67 Zn	-2.232235	41.160			2402.924	ug/L	2629.440	
66 Zn	-0.264603	17.773			647.400	ug/L	789.101	
72 Ge					1204027.955	ug/L	1223397.518	
108 Cd	0.034716	68.420			12.075	ug/L	5.532	
114 Cd	0.009162	13.965			148.401	ug/L	90.438	
115 In					1358106.038	ug/L	1372150.246	
208 207.977	-0.005074	61.889			682.360	ug/L	785.369	
207 Pb	-0.005913	111.399			286.005	ug/L	335.006	
206 Pb	-0.003197	114.847			345.007	ug/L	386.675	
169 Tm					943357.983	ug/L	990425.381	
106 Pd	0.019837	98.198			16.000	ug/L	11.333	
83 Kr	-488.343422	26.040			508.348	ug/L	676.026	
182 W					7.667	ug/L	5.667	

Report Date/Time: Tuesday, November 07, 2006 19:32:34

## Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	103.459
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	98.417
Cd	111	
Sb	121	
Ba	135	
> In-1	115	98.976
Pb	208	
> Tm-1	169	95.248
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	98.417
Cd	108	
Cd	114	
> In	115	98.976
207.977	208	
Pb	207	
Pb	206	
> Tm	169	95.248
Pd	106	
Kr	83	
W	182	

BJones

**Sample ID: CCV 6**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 19:34:50

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCV 6.048

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1226430.323	ug/L	1317562.271
6 Li-1			326603.981	ug/L	315191.361
9 Be	94.908847	2.538	19178.337	ug/L	1.333
27 Al	4808.214850	3.264	17870448.910	ug/L	20070.681
52 Cr	97.823360	2.829	862179.492	ug/L	34855.999
55 Mn	101.285840	1.546	1329593.444	ug/L	2170.269
59 Co	98.128132	2.858	1075567.913	ug/L	87.000
60 Ni	100.685368	1.727	239890.580	ug/L	168.875
65 Cu	98.231718	2.444	255697.887	ug/L	214.311
68 Zn	97.009076	1.580	96290.369	ug/L	2077.917
75 As	98.993387	1.485	265515.656	ug/L	21800.666
72 Ge-1			1175680.301	ug/L	1223397.518
111 Cd	95.941928	5.983	258195.919	ug/L	40.624
121 Sb	48.599055	4.837	458598.581	ug/L	172.002
135 Ba	96.145167	3.753	242549.900	ug/L	281.005
115 In-1			1332877.451	ug/L	1372150.246
208 Pb	102.163192	2.972	2610352.303	ug/L	1507.050
169 Tm-1			937598.308	ug/L	990425.381
50 Cr	97.512429	8.767	19079.815	ug/L	-332.643
53 Cr	89.155550	11.631	79321.458	ug/L	50234.573
61 Ni	100.533562	4.192	5511.525	ug/L	1631.426
63 Cu	98.805473	3.124	192062.836	ug/L	91.335
67 Zn	96.840572	3.356	10372.859	ug/L	2629.440
66 Zn	101.080838	4.021	48927.012	ug/L	789.101
72 Ge			1175680.301	ug/L	1223397.518
108 Cd	97.756955	4.493	18082.343	ug/L	5.532
114 Cd	95.922273	5.309	604552.160	ug/L	90.438
115 In			1332877.451	ug/L	1372150.246
208 207.977	102.928095	3.258	1322033.862	ug/L	785.369
207 Pb	99.046903	2.590	545071.216	ug/L	335.006
206 Pb	103.179643	2.911	743247.225	ug/L	386.675
169 Tm			937598.308	ug/L	990425.381
106 Pd	97.023596	1.227	22835.763	ug/L	11.333
83 Kr	-185.435745	29.857	612.355	ug/L	676.026
182 W			97.668	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 19:36:28

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
[> Li-1	6	103.621
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	96.100
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	97.138
Pb	208	
[> Tm-1	169	94.666
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	96.100
Cd	108	
Cd	114	
[> In	115	97.138
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	94.666
Pd	106	
Kr	83	
W	182	

BJones

**Sample ID: CCB 6**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 19:38:44

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCB 6.049

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1261018.936	ug/L	1317562.271
6 Li-1			325097.455	ug/L	315191.361
9 Be	0.029476	51.757	7.333	ug/L	1.333
27 Al	0.555314	32.520	21812.489	ug/L	20070.681
52 Cr	-0.317244	57.440	31466.501	ug/L	34855.999
55 Mn	-0.000199	5183.584	2127.259	ug/L	2170.269
59 Co	0.013088	12.717	232.003	ug/L	87.000
60 Ni	0.014603	13.660	201.418	ug/L	168.875
65 Cu	0.006061	201.506	226.263	ug/L	214.311
68 Zn	-0.369463	20.133	1673.160	ug/L	2077.917
75 As	0.249686	6.354	22047.236	ug/L	21800.666
72 Ge-1			1201814.586	ug/L	1223397.518
111 Cd	0.009887	22.307	68.756	ug/L	40.624
121 Sb	0.011321	23.512	285.005	ug/L	172.002
135 Ba	0.015633	60.333	325.006	ug/L	281.005
115 In-1			1386796.109	ug/L	1372150.246
208 Pb	-0.002245	46.939	1369.042	ug/L	990425.381
169 Tm-1			937125.934	ug/L	-332.643
50 Cr	0.356165	48.457	-254.604	ug/L	50234.573
53 Cr	-11.789805	41.136	45125.593	ug/L	1631.426
61 Ni	-4.095372	16.485	1437.997	ug/L	91.335
63 Cu	0.008994	83.866	107.335	ug/L	2629.440
67 Zn	-2.149489	107.633	2402.259	ug/L	789.101
66 Zn	-0.278488	19.840	639.732	ug/L	1223397.518
72 Ge			1201814.586	ug/L	5.532
108 Cd	0.022503	99.923	9.927	ug/L	90.438
114 Cd	0.011902	18.019	169.502	ug/L	1372150.246
115 In			1386796.109	ug/L	785.369
208 207.977	-0.002008	140.559	717.696	ug/L	335.006
207 Pb	-0.006459	27.102	281.338	ug/L	386.675
206 Pb	0.000551	335.197	370.008	ug/L	990425.381
169 Tm			937125.934	ug/L	11.333
106 Pd	0.008502	225.462	13.333	ug/L	676.026
83 Kr	-90.290866	64.274	645.024	ug/L	5.667
182 W			5.000	ug/L	

Report Date/Time: Tuesday, November 07, 2006 19:40:22

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
> Li-1	6	103.143
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	98.236
Cd	111	
Sb	121	
Ba	135	
> In-1	115	101.067
Pb	208	
> Tm-1	169	94.619
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	98.236
Cd	108	
Cd	114	
> In	115	101.067
207.977	208	
Pb	207	
Pb	206	
> Tm	169	94.619
Pd	106	
Kr	83	
W	182	

Report Date/Time: Tuesday, November 07, 2006 19:40:22

SOP No. SAC-MT-0001

BJones

**Sample ID: CCV 7**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 20:16:20

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCV 7.059

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1282345.676	ug/L	1317562.271
6 Li-1			327577.043	ug/L	315191.361
9 Be	94.460590	0.340	19147.260	ug/L	1.333
27 Al	4786.837918	4.907	17923830.638	ug/L	20070.681
52 Cr	98.210304	3.553	872263.754	ug/L	34855.999
55 Mn	101.206571	1.495	1339447.647	ug/L	2170.269
59 Co	98.271531	2.499	1085929.463	ug/L	87.000
60 Ni	99.431507	0.661	238844.015	ug/L	168.875
65 Cu	96.312103	0.196	252773.853	ug/L	214.311
68 Zn	99.010805	1.668	99038.620	ug/L	2077.917
75 As	101.057005	2.072	272761.951	ug/L	21800.666
72 Ge-1			1185217.478	ug/L	1223397.518
111 Cd	96.745173	4.664	263867.652	ug/L	40.624
121 Sb	48.179228	3.070	460847.025	ug/L	172.002
135 Ba	97.654501	3.602	249692.909	ug/L	281.005
115 In-1			1350769.303	ug/L	1372150.246
208 Pb	102.180041	3.022	2643060.614	ug/L	1507.050
169 Tm-1			949328.508	ug/L	990425.381
50 Cr	90.748518	3.026	17879.355	ug/L	-332.643
53 Cr	92.706629	10.784	81198.840	ug/L	50234.573
61 Ni	96.155452	6.110	5383.640	ug/L	1631.426
63 Cu	97.033507	2.188	190215.095	ug/L	91.335
67 Zn	97.755665	2.015	10532.056	ug/L	2629.440
66 Zn	101.050692	1.082	49322.042	ug/L	789.101
72 Ge			1185217.478	ug/L	1223397.518
108 Cd	97.831186	5.923	18327.440	ug/L	5.532
114 Cd	96.892953	3.331	618987.002	ug/L	90.438
115 In			1350769.303	ug/L	1372150.246
208 207.977	103.848120	3.079	1350317.046	ug/L	785.369
207 Pb	100.299592	1.802	558853.399	ug/L	335.006
206 Pb	100.642332	3.939	733890.169	ug/L	386.675
169 Tm			949328.508	ug/L	990425.381
106 Pd	98.556583	3.056	23196.392	ug/L	11.333
83 Kr	80.582411	13.684	703.695	ug/L	676.026
182 W			99.335	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 20:17:57

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Sample ID: CCV 7

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## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	103.930
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	96.879
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	98.442
Pb	208	
[> Tm-1	169	95.851
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	96.879
Cd	108	
Cd	114	
[> In	115	98.442
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	95.851
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCB 7**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 20:20:14

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCB 7.060

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1253939.717	ug/L	1317562.271	
6 Li-1					326340.937	ug/L	315191.361	
9 Be	0.027814	64.097			7.000	ug/L	1.333	
27 Al	0.516506	50.721			21747.358	ug/L	20070.681	
52 Cr	-0.197787	28.965			32637.767	ug/L	34855.999	
55 Mn	0.003461	112.020			2185.606	ug/L	2170.269	
59 Co	0.012112	16.075			222.003	ug/L	87.000	
60 Ni	0.012331	6.949			196.631	ug/L	168.875	
65 Cu	0.008448	93.993			233.606	ug/L	214.311	
68 Zn	-0.504240	7.125			1545.470	ug/L	2077.917	
75 As	0.399939	70.770			22494.978	ug/L	21800.666	
72 Ge-1					1206049.040	ug/L	1223397.518	
111 Cd	0.009083	40.078			65.418	ug/L	40.624	
121 Sb	0.022891	16.143			392.009	ug/L	172.002	
135 Ba	0.015528	59.585			319.339	ug/L	281.005	
115 In-1					1364537.190	ug/L	1372150.246	
208 Pb	-0.005534	34.112			1303.038	ug/L	1507.050	
169 Tm-1					951088.382	ug/L	990425.381	
50 Cr	0.308197	42.199			-264.791	ug/L	-332.643	
53 Cr	-10.838552	37.781			45649.344	ug/L	50234.573	
61 Ni	-3.421806	74.100			1472.015	ug/L	1631.426	
63 Cu	0.011564	32.544			113.002	ug/L	91.335	
67 Zn	-2.021662	74.901			2422.272	ug/L	2629.440	
66 Zn	-0.425181	24.706			570.386	ug/L	789.101	
72 Ge					1206049.040	ug/L	1223397.518	
108 Cd	0.012755	192.858			7.952	ug/L	5.532	
114 Cd	0.009264	39.421			149.638	ug/L	90.438	
115 In					1364537.190	ug/L	1372150.246	
208 207.977	-0.005690	32.888			679.693	ug/L	785.369	
207 Pb	-0.007714	31.237			278.338	ug/L	335.006	
206 Pb	-0.003592	53.902			345.007	ug/L	386.675	
169 Tm					951088.382	ug/L	990425.381	
106 Pd	0.018420	87.368			15.667	ug/L	11.333	
83 Kr	-63.106571	68.041			654.358	ug/L	676.026	
182 W					8.667	ug/L	5.667	

Report Date/Time: Tuesday, November 07, 2006 20:21:52

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	103.537
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	98.582
Cd	111	
Sb	121	
Ba	135	
> In-1	115	99.445
Pb	208	
> Tm-1	169	96.028
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	98.582
Cd	108	
Cd	114	
> In	115	99.445
207.977	208	
Pb	207	
Pb	206	
> Tm	169	96.028
Pd	106	
Kr	83	
W	182	

BJones

Sample ID: CCV 8

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 20:24:08

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCV 8.061

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1255209.220	ug/L	1317562.271	
6 Li-1					324315.933	ug/L	315191.361	
9 Be	96.561893	1.054			19377.767	ug/L	1.333	
27 Al	4752.952849	1.769	17998541.998		873915.317	ug/L	20070.681	
52 Cr	97.274189	2.141			1356447.482	ug/L	34855.999	
55 Mn	101.401236	0.941			1077288.809	ug/L	2170.269	
59 Co	96.439773	0.256			238824.383	ug/L	87.000	
60 Ni	98.359317	1.363			257565.481	ug/L	168.875	
65 Cu	97.094048	1.331			98412.177	ug/L	214.311	
68 Zn	97.305486	2.123			268169.838	ug/L	2077.917	
75 As	98.050908	2.319			1197993.383	ug/L	21800.666	
72 Ge-1							1223397.518	
111 Cd	96.736293	1.610	260312.918			ug/L	40.624	
121 Sb	49.082576	4.114	462807.336			ug/L	172.002	
135 Ba	99.466271	3.178	250711.733			ug/L	281.005	
115 In-1			1331874.390			ug/L	1372150.246	
208 Pb	102.908568	2.062	2652044.235			ug/L	1507.050	
169 Tm-1			945576.504			ug/L	990425.381	
50 Cr	89.958667	3.728	17918.732			ug/L	-332.643	
53 Cr	85.814808	2.814	79654.463			ug/L	50234.573	
61 Ni	96.292141	2.970	5447.412			ug/L	1631.426	
63 Cu	96.033447	1.142	190252.179			ug/L	91.335	
67 Zn	94.069133	5.584	10342.107			ug/L	2629.440	
66 Zn	99.144152	2.707	48922.838			ug/L	789.101	
72 Ge			1197993.383			ug/L	1223397.518	
108 Cd	97.811117	1.496	18085.002			ug/L	5.532	
114 Cd	97.132054	3.473	611773.029			ug/L	90.438	
115 In			1331874.390			ug/L	1372150.246	
208 207.977	104.171643	2.416	1349606.402			ug/L	785.369	
207 Pb	99.816445	2.690	553920.971			ug/L	335.006	
206 Pb	103.018386	1.513	748516.862			ug/L	386.675	
169 Tm			945576.504			ug/L	990425.381	
106 Pd	96.176906	1.715	22636.582			ug/L	11.333	
83 Kr	-45.630946	32.755	660.358			ug/L	676.026	
182 W			98.668			ug/L	5.667	

Report Date/Time: Tuesday, November 07, 2006 20:25:45

## Internal Standard Recoveries

Analyte Mass	Int Std % Recovery
--------------	--------------------

Sc	45
> Li-1	6
Be	9
> Al	27
Cr	52
Mn	55
Co	59
Ni	60
Cu	65
Zn	68
As	75
> Ge-1	72
Cd	97.923
Sb	111
Ba	121
> In-1	135
Pb	97.065
> Tm-1	208
Cr	169
Cr	95.472
Ni	50
Cu	53
Zn	61
Zn	63
Zn	67
Zn	66
> Ge	72
Cd	97.923
Cd	108
Cd	114
> In	115
> 207.977	97.065
Pb	208
Pb	207
Pb	206
> Tm	169
Pd	95.472
Kr	106
W	83
W	182

SOP No. SAC-MT-0001

BJones

**Sample ID: CCB 8**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 20:28:02

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCB 8.062

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1275120.090	ug/L	1317562.271
6 Li-1			316581.959	ug/L	315191.361
9 Be	0.015364	23.990	4.333	ug/L	1.333
27 Al	0.906673	15.285	22543.675	ug/L	20070.681
52 Cr	-0.223822	42.023	31448.433	ug/L	34855.999
55 Mn	0.010378	63.233	2210.946	ug/L	2170.269
59 Co	0.013854	2.304	234.336	ug/L	87.000
60 Ni	0.014968	50.052	197.035	ug/L	168.875
65 Cu	0.003676	319.586	214.562	ug/L	214.311
68 Zn	-0.486013	7.403	1517.132	ug/L	2077.917
75 As	0.379072	24.704	21781.791	ug/L	21800.666
72 Ge-1			1170094.442	ug/L	1223397.518
111 Cd	0.009852	23.631	67.629	ug/L	40.624
121 Sb	0.021338	10.200	377.008	ug/L	172.002
135 Ba	0.011337	65.248	308.339	ug/L	281.005
115 In-1			1364106.682	ug/L	1372150.246
208 Pb	-0.000437	694.827	1400.711	ug/L	1507.050
169 Tm-1			927794.041	ug/L	990425.381
50 Cr	0.225666	53.153	-273.498	ug/L	-332.643
53 Cr	-8.055885	56.148	45248.098	ug/L	50234.573
61 Ni	-2.206438	37.206	1474.348	ug/L	1631.426
63 Cu	0.016020	13.181	118.336	ug/L	91.335
67 Zn	-1.978007	55.827	2355.555	ug/L	2629.440
66 Zn	-0.415373	20.296	557.717	ug/L	789.101
72 Ge			1170094.442	ug/L	1223397.518
108 Cd	0.036731	51.336	12.384	ug/L	5.532
114 Cd	0.014325	28.853	182.027	ug/L	90.438
115 In			1364106.682	ug/L	1372150.246
208 207.977	0.000041	10142.167	736.364	ug/L	785.369
207 Pb	-0.005439	39.702	284.338	ug/L	335.006
206 Pb	0.002530	205.612	380.008	ug/L	386.675
169 Tm			927794.041	ug/L	990425.381
106 Pd	0.018420	233.446	15.667	ug/L	11.333
83 Kr	67.961057	43.142	699.361	ug/L	676.026
182 W			5.000	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 20:29:40

## Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	100.441
[< Be	9	
[< Al	27	
[< Cr	52	
[< Mn	55	
[< Co	59	
[< Ni	60	
[< Cu	65	
[< Zn	68	
[< As	75	
[> Ge-1	72	95.643
[< Cd	111	
[< Sb	121	
[< Ba	135	
[> In-1	115	99.414
[< Pb	208	
[> Tm-1	169	93.676
[< Cr	50	
[< Cr	53	
[< Ni	61	
[< Cu	63	
[< Zn	67	
[< Zn	66	
[> Ge	72	95.643
[< Cd	108	
[< Cd	114	
[> In	115	99.414
[< 207.977	208	
[< Pb	207	
[< Pb	206	
[> Tm	169	93.676
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: LL-STD 10X**

Sample Description: Low Level Std 10X

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 20:31:55

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\LL-STD 10X.063

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 15

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1267661.670	ug/L	1317562.271
6 Li-1			320181.544	ug/L	315191.361
9 Be	0.871533	5.549	174.002	ug/L	1.333
>27 Al	118.711887	1.726	457136.407	ug/L	20070.681
52 Cr	0.649471	15.604	38758.014	ug/L	34855.999
>55 Mn	1.742040	3.758	24761.673	ug/L	2170.269
59 Co	0.992969	2.155	10900.120	ug/L	87.000
60 Ni	1.032522	3.710	2604.198	ug/L	168.875
65 Cu	1.086700	2.034	3013.788	ug/L	214.311
>68 Zn	12.918167	1.805	14462.276	ug/L	2077.917
75 As	1.089371	15.872	23493.291	ug/L	21800.666
72 Ge-1			1168409.863	ug/L	1223397.518
111 Cd	0.934134	2.338	2574.343	ug/L	40.624
121 Sb	0.482618	1.169	4757.960	ug/L	172.002
135 Ba	0.968383	1.100	2734.761	ug/L	281.005
115 In-1			1342739.057	ug/L	1372150.246
208 Pb	1.262222	1.198	33673.275	ug/L	1507.050
169 Tm-1			937649.654	ug/L	990425.381
50 Cr	1.684264	5.712	15.443	ug/L	-332.643
53 Cr	-16.499037	20.903	42260.614	ug/L	50234.573
61 Ni	-1.950102	110.414	1482.019	ug/L	1631.426
63 Cu	1.105730	2.711	2222.791	ug/L	91.335
67 Zn	8.479582	20.689	3193.299	ug/L	2629.440
66 Zn	13.455360	3.782	7125.786	ug/L	789.101
72 Ge			1168409.863	ug/L	1223397.518
108 Cd	0.833685	11.308	160.746	ug/L	5.532
114 Cd	0.957515	1.897	6171.440	ug/L	90.438
115 In			1342739.057	ug/L	1372150.246
208 207.977	1.294183	1.117	17363.881	ug/L	785.369
207 Pb	1.232037	0.638	7095.209	ug/L	335.006
206 Pb	1.228295	2.193	9214.185	ug/L	386.675
169 Tm			937649.654	ug/L	990425.381
106 Pd	0.932370	4.590	230.670	ug/L	11.333
83 Kr	-25.242667	122.293	667.359	ug/L	676.026
182 W			6.667	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 20:33:32

## Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	101.583
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	95.505
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	97.857
Pb	208	
[> Tm-1	169	94.671
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	95.505
Cd	108	
Cd	114	
[> In	115	97.857
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	94.671
Pd	106	
Kr	83	
W	182	

BJones

**Sample ID: LL-STD 5X**

Sample Description: Low Level Std 5X

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 20:35:48

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\LL-STD 5X.064

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 16

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1263342.067	ug/L	1317562.271
6 Li-1			320471.228	ug/L	315191.361
9 Be	1.832371	2.036	364.674	ug/L	1.333
>27 Al	149.605759	0.358	583036.655	ug/L	20070.681
52 Cr	1.443581	8.572	46383.294	ug/L	34855.999
55 Mn	2.545224	4.941	35944.052	ug/L	2170.269
59 Co	1.963481	2.444	21918.427	ug/L	87.000
60 Ni	2.055480	4.156	5128.974	ug/L	168.875
65 Cu	2.012222	5.902	5515.991	ug/L	214.311
68 Zn	13.879271	1.471	15710.759	ug/L	2077.917
75 As	2.358857	15.116	27159.000	ug/L	21800.666
72 Ge-1			1192799.540	ug/L	1223397.518
111 Cd	1.683955	1.980	4957.704	ug/L	40.624
121 Sb	0.882706	3.420	9209.512	ug/L	172.002
135 Ba	1.728031	1.054	5019.440	ug/L	281.005
115 In-1			1444883.919	ug/L	1372150.246
208 Pb	2.143246	1.797	56695.531	ug/L	1507.050
169 Tm-1			946289.107	ug/L	990425.381
50 Cr	2.559313	22.684	191.306	ug/L	-332.643
53 Cr	-19.801445	18.409	41980.681	ug/L	50234.573
61 Ni	0.045787	3369.090	1592.740	ug/L	1631.426
63 Cu	2.074214	3.720	4176.790	ug/L	91.335
67 Zn	10.870682	18.227	3457.582	ug/L	2629.440
66 Zn	14.503120	5.728	7778.009	ug/L	789.101
72 Ge			1192799.540	ug/L	1223397.518
108 Cd	1.666068	8.220	339.457	ug/L	5.532
114 Cd	1.746468	1.179	12037.828	ug/L	90.438
115 In			1444883.919	ug/L	1372150.246
208 207.977	2.187897	2.194	29105.336	ug/L	785.369
207 Pb	2.065367	1.763	11788.271	ug/L	335.006
206 Pb	2.123122	2.274	15801.924	ug/L	386.675
169 Tm			946289.107	ug/L	990425.381
106 Pd	1.897354	9.739	457.679	ug/L	11.333
83 Kr	12.621567	1146.724	680.360	ug/L	676.026
182 W			5.333	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 20:37:25

## Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
> Li-1	6	101.675
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	97.499
Cd	111	
Sb	121	
Ba	135	
> In-1	115	105.301
Pb	208	
> Tm-1	169	95.544
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	97.499
Cd	108	
Cd	114	
> In	115	105.301
207.977	208	
Pb	207	
Pb	206	
> Tm	169	95.544
Pd	106	
Kr	83	
W	182	

BJones

**Sample ID: ICSA**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 20:39:41

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\ICSA.065

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1140537.503	ug/L	1317562.271
6 Li-1			290555.684	ug/L	315191.361
9 Be	0.054393	30.547	11.000	ug/L	1.333
27 Al	101671.932396	4.518	342757623.727	ug/L	20070.681
52 Cr	1.318410	12.945	40562.821	ug/L	34855.999
55 Mn	5.221206	0.816	64063.376	ug/L	2170.269
59 Co	2.346475	2.094	23439.360	ug/L	87.000
60 Ni	1.672790	7.914	3766.625	ug/L	168.875
65 Cu	0.845537	17.691	2187.512	ug/L	214.311
68 Zn	2.153370	2.588	3715.122	ug/L	2077.917
75 As	0.456481	39.710	20053.288	ug/L	21800.666
72 Ge-1			1068052.222	ug/L	1223397.518
111 Cd	0.453899	32.945	1234.249	ug/L	40.624
121 Sb	0.251960	3.189	2490.354	ug/L	172.002
135 Ba	0.745452	6.670	2105.254	ug/L	281.005
115 In-1			1304215.479	ug/L	1372150.246
208 Pb	0.828748	1.366	21111.163	ug/L	1507.050
169 Tm-1			875974.683	ug/L	990425.381
50 Cr	269.926728	18.918	48431.330	ug/L	-332.643
53 Cr	-2.046614	82.607	43214.598	ug/L	50234.573
61 Ni	26.203630	9.471	2358.891	ug/L	1631.426
63 Cu	4.579591	1.226	8164.991	ug/L	91.335
67 Zn	19.500461	9.124	3732.231	ug/L	2629.440
66 Zn	6.871990	2.362	3663.480	ug/L	789.101
72 Ge			1068052.222	ug/L	1223397.518
108 Cd	56.068252	2.508	10154.772	ug/L	5.532
114 Cd	3.302633	3.006	20462.344	ug/L	90.438
115 In			1304215.479	ug/L	1372150.246
208 207.977	0.854714	1.525	10948.513	ug/L	785.369
207 Pb	0.826232	0.815	4543.179	ug/L	335.006
206 Pb	0.784375	1.982	5619.471	ug/L	386.675
169 Tm			875974.683	ug/L	990425.381
106 Pd	0.507274	8.722	130.668	ug/L	11.333
83 Kr	735.931203	14.673	928.716	ug/L	676.026
182 W			1064.181	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 20:41:17

## Internal Standard Recoveries

Analyte Mass Int Std % Recovery

Sc	45	
[> Li-1	6	92.184
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	87.302
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	95.049
Pb	208	
[> Tm-1	169	88.444
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	87.302
Cd	108	
Cd	114	
[> In	115	95.049
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	88.444
Pd	106	
Kr	83	
W	182	

**Sample ID: ICSAB**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 20:43:32

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\ICSAB.066

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc					1129669.426	ug/L	1317562.271	
6 Li-1					291530.658	ug/L	315191.361	
9 Be	95.749591	0.712			17271.032	ug/L	1.333	
27 Al	109178.730561	3.814			355910336.845	ug/L	20070.681	
52 Cr	99.763038	2.884			771767.058	ug/L	34855.999	
55 Mn	106.512464	2.600			1227994.360	ug/L	2170.269	
59 Co	98.153692	1.447			945096.327	ug/L	87.000	
60 Ni	93.978592	0.752			196709.412	ug/L	168.875	
65 Cu	90.638613	1.057			207304.157	ug/L	214.311	
68 Zn	93.727960	0.599			81781.457	ug/L	2077.917	
75 As	102.101890	0.804			239971.000	ug/L	21800.666	
					1032777.033	ug/L	1223397.518	
72 Ge-1								40.624
111 Cd	92.331650	1.411			237844.511	ug/L		172.002
121 Sb	48.456126	2.759			437456.737	ug/L		281.005
135 Ba	97.051331	2.772			234207.422	ug/L		1372150.246
115 In-1					1274927.687	ug/L		1507.050
208 Pb	97.967943	2.158			2275945.834	ug/L		990425.381
169 Tm-1					852315.013	ug/L		-332.643
50 Cr	347.632778	10.447			60430.288	ug/L		50234.573
53 Cr	104.634164	6.747			74416.293	ug/L		1631.426
61 Ni	118.856582	3.273			5473.458	ug/L		91.335
63 Cu	93.934399	0.522			160420.853	ug/L		2629.440
67 Zn	114.077006	2.619			10341.766	ug/L		789.101
66 Zn	97.220424	1.410			41372.180	ug/L		1223397.518
					1032777.033	ug/L		5.532
72 Ge								90.438
108 Cd	147.037760	1.722			26015.696	ug/L		1372150.246
114 Cd	95.287730	1.500			574772.641	ug/L		785.369
115 In					1274927.687	ug/L		335.006
208 Pb	98.719368	2.628			1152864.466	ug/L		386.675
207 Pb	95.897400	1.813			479809.733	ug/L		990425.381
206 Pb	98.209700	1.660			643271.635	ug/L		11.333
169 Tm					852315.013	ug/L		676.026
106 Pd	86.980932	2.146			20473.264	ug/L		5.667
83 Kr	657.288332	3.821			901.713	ug/L		
182 W					1076.185	ug/L		

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
---------	------	--------------------

Sc	45	
> Li-1	6	92.493
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	84.419
Cd	111	
Sb	121	
Ba	135	
> In-1	115	92.915
Pb	208	
> Tm-1	169	86.055
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	84.419
Cd	108	
Cd	114	
> In	115	92.915
207.977	208	
Pb	207	
Pb	206	
> Tm	169	86.055
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCV 9**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 21:02:55

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCV 9.071

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
45 Sc				1267130.958	ug/L	1317562.271
6 Li-1				327769.209	ug/L	315191.361
9 Be	95.640530	1.753		19397.815	ug/L	1.333
27 Al	5049.769628	3.786	18629783.813	ug/L		20070.681
52 Cr	96.689654	0.374	846674.934	ug/L		34855.999
55 Mn	102.926114	2.207	1341546.689	ug/L		2170.269
59 Co	97.603483	1.707	1062526.428	ug/L		87.000
60 Ni	99.874952	2.443	236336.377	ug/L		168.875
65 Cu	98.361626	2.174	254292.116	ug/L		214.311
68 Zn	98.579747	0.894	97130.213	ug/L		2077.917
75 As	99.553155	0.521	264993.047	ug/L		21800.666
72 Ge-1			1167397.682	ug/L		1223397.518
111 Cd	96.739144	2.758	262830.287	ug/L		40.624
121 Sb	48.497128	1.838	461991.642	ug/L		172.002
135 Ba	95.770057	0.331	243918.644	ug/L		281.005
115 In-1			1344858.158	ug/L		1372150.246
208 Pb	100.697926	0.456	2569905.439	ug/L		1507.050
169 Tm-1			936177.678	ug/L		990425.381
50 Cr	92.076930	1.838	17880.685	ug/L		-332.643
53 Cr	86.502691	3.470	77855.656	ug/L		50234.573
61 Ni	103.698598	5.948	5598.018	ug/L		1631.426
63 Cu	98.644441	2.147	190449.748	ug/L		91.335
67 Zn	98.436521	2.616	10428.710	ug/L		2629.440
66 Zn	99.421610	0.989	47805.276	ug/L		789.101
72 Ge			1167397.682	ug/L		1223397.518
108 Cd	97.101979	4.025	18121.175	ug/L		5.532
114 Cd	97.022698	2.543	617291.995	ug/L		90.438
115 In			1344858.158	ug/L		1372150.246
208 207.977	101.886926	0.165	1307176.393	ug/L		785.369
207 Pb	99.353779	1.635	545991.802	ug/L		335.006
206 Pb	99.604732	0.616	716737.243	ug/L		386.675
169 Tm			936177.678	ug/L		990425.381
106 Pd	94.834430	1.282	22320.770	ug/L		11.333
83 Kr	27.184394	143.880	685.360	ug/L		676.026
182 W			97.335	ug/L		5.667

Report Date/Time: Tuesday, November 07, 2006 21:04:32

Page 1

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
[> Li-1	6	103.991
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
[> Ge-1	72	95.423
Cd	111	
Sb	121	
Ba	135	
[> In-1	115	98.011
Pb	208	
[> Tm-1	169	94.523
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
[> Ge	72	95.423
Cd	108	
Cd	114	
[> In	115	98.011
207.977	208	
Pb	207	
Pb	206	
[> Tm	169	94.523
Pd	106	
Kr	83	
W	182	

SOP No. SAC-MT-0001

BJones

**Sample ID: CCB 9**

Sample Description:

Batch ID:

Sample Date/Time: Tuesday, November 07, 2006 21:06:48

Method File: C:\elandata\Method\6305113.mth

Dataset File: C:\elandata\Dataset\061107a1\CCB 9.072

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

**Sample Result Summary**

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45 Sc			1263506.784	ug/L	1317562.271
6 Li-1			317219.784	ug/L	315191.361
9 Be	0.006839	117.099	2.667	ug/L	1.333
27 Al	1.423406	18.006	24272.975	ug/L	20070.681
52 Cr	-0.418882	24.180	29584.945	ug/L	34855.999
55 Mn	-0.000465	1922.996	2054.242	ug/L	2170.269
59 Co	0.017942	7.828	277.004	ug/L	87.000
60 Ni	0.019944	18.320	207.222	ug/L	168.875
65 Cu	0.005304	197.719	216.999	ug/L	214.311
68 Zn	-0.760262	5.680	1242.755	ug/L	2077.917
75 As	0.750480	42.503	22528.033	ug/L	21800.666
72 Ge-1			1161631.009	ug/L	1223397.518
111 Cd	0.016117	17.160	84.229	ug/L	40.624
121 Sb	0.096059	6.396	1093.068	ug/L	172.002
135 Ba	0.017769	46.741	323.339	ug/L	281.005
115 In-1			1356951.114	ug/L	1372150.246
208 Pb	-0.002751	52.252	1333.373	ug/L	1507.050
169 Tm-1			921904.045	ug/L	990425.381
50 Cr	0.295281	31.825	-257.732	ug/L	-332.643
53 Cr	-10.071449	53.933	44223.653	ug/L	50234.573
61 Ni	-1.212862	126.022	1501.694	ug/L	1631.426
63 Cu	0.020631	3.022	126.336	ug/L	91.335
67 Zn	-3.639062	28.749	2205.112	ug/L	2629.440
66 Zn	-0.703901	12.467	418.028	ug/L	789.101
72 Ge			1161631.009	ug/L	1223397.518
108 Cd	0.005688	368.814	6.495	ug/L	5.532
114 Cd	0.017863	11.673	203.893	ug/L	90.438
115 In			1356951.114	ug/L	1372150.246
208 207.977	-0.002887	23.327	694.694	ug/L	785.369
207 Pb	-0.005979	46.890	279.338	ug/L	335.006
206 Pb	-0.000045	9093.892	359.341	ug/L	386.675
169 Tm			921904.045	ug/L	990425.381
106 Pd	0.017003	180.854	15.333	ug/L	11.333
83 Kr	-49.514370	132.972	659.025	ug/L	676.026
182 W			7.333	ug/L	5.667

Report Date/Time: Tuesday, November 07, 2006 21:08:26

Page 1

## Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
> Li-1	6	100.644
Be	9	
Al	27	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
> Ge-1	72	94.951
Cd	111	
Sb	121	
Ba	135	
> In-1	115	98.892
Pb	208	
> Tm-1	169	93.082
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
> Ge	72	94.951
Cd	108	
Cd	114	
> In	115	98.892
207.977	208	
Pb	207	
Pb	206	
> Tm	169	93.082
Pd	106	
Kr	83	
W	182	

## **Sample Preparation Log**

**STL SACRAMENTO**  
**Metals - Air Toxics - Preparation Log**

Date: 1-Nov-06

Analyst: Loeram

Matrix: AIR

Fraction: Filter

SOP:

Method: ICPMS

LOT ID		Workorder		Volume Received	Volume Removed	Initial Prep Volume	Final Prep Volume	Batch	Prep Factor
G6K010000	113	JHM8CB	2A	NA	NA	NA	100	6305113	1.2
G6K010000	113	JHM8CC	2A	NA	NA	NA	100	6305113	1.2
G6K010000	113	JHM8CL	2A	NA	NA	NA	100	6305113	1.2
G6J200154	1	JGV93	2A	9	0.75	0.75	100	6305113	1.2
G6J200154	2	JGV97	2A	9	0.75	0.75	100	6305113	1.2
G6J200154	3	JGV98	2A	9	0.75	0.75	100	6305113	1.2
G6J200154	4	JGWAA	2A	9	0.75	0.75	100	6305113	1.2
G6J200154	5	JGWAD	2A	9	0.75	0.75	100	6305113	1.2
G6J200155	1	JGWAN	2A	9	0.75	0.75	100	6305113	1.2
G6J200155	2	JGWAW	2A	9	0.75	0.75	100	6305113	1.2
G6J200155	3	JGWA0	2A	9	0.75	0.75	100	6305113	1.2
G6J200155	4	JGWA1	2A	9	0.75	0.75	100	6305113	1.2
G6J200155	5	JGWA2	2A	9	0.75	0.75	100	6305113	1.2

For 1" filter: factor = 9 (9/1)  
 For 0.75" filter factor = 12 (9/0.75)

Page 1 of 1  
 QA-372B mlt 02/20/03

STL Sacramento  
Metals Preparation Spiking  
Documentation Form

SEVERN  
TECHNICAL

STL

Lot #

*5 ml*  
G6J200155-(1-6); G6J200154-(1-5)

Batch Number:

6305113

EPA Analytical  
Method ID:

6020

Spiked Date:

11/01/04

MS Run #:

EPA Prep  
Method ID:

2A

Hot Plate

3

Analyst Initial/Date:

MC/11/01/04

Witness Initial/Date:

LLC 11-01-06

Hot Plate Temp

Initial: 90°

Final:

Correct Folder ID

Witness:

Check If Used	Bottle Name	Elements	Stock Concentration (mg/L)	Tracking Number	LCS/DCS Volume Spiked	MS/SD Volume Spiked	Expiration Date
	ICP Part 1 5% HNO <sub>3</sub>	Ca, Mg Al, As, Ba, Se, Sn, Ti Fe, Mo, Ti Sb, Co, Pb, Mn, Ni, V, Zn	5,000 200 100 50 25 20 5 5.0				
	ICP Part 2 2% HNO <sub>3</sub>	K, Na P, S B, Li, Sr	5,000 1,000 100				
	Si H <sub>2</sub> O/T <sub>r</sub> , HF	Si	1,000				
✓	XCAL-45 5% HNO <sub>3</sub>	Al, K, Mg, Ca, Na, Fe, P, B, Si As, Be, Cd, Cr, Co, Cu, Pb, Mn, Mo, Ni, Se, U, V, Za, Ba, Li, Sn, Sr, Ti Sb, Ag, Tl	50 10 2.5	1774-11-2 8-12	2.0ml		10/07
	Misc. Elements						11/01/06 MC

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
✓	70% HNO <sub>3</sub>	Mallinckrodt	C30058		30% H <sub>2</sub> O <sub>2</sub>	Mallinckrodt	11/01/06 MC
	37% HCl	Mallinckrodt			49% HF	Fisher	

ICP matrix spike and LCS: For final volumes of 100ml, add 1ml from bottles ICP Part 1, ICP Part 2. Add 1ml of Silica (Si) when requested.

ICPMS matrix spike and LCS: For final volumes of 100ml, add 2ml of XCAL-45.

Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.

Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.

Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.

# AIR, 9056, Sulfate

## General Anions by IC

*Fluoride  
Chloride  
Nitrite  
Bromide  
Nitrate  
Phosphate  
Sulfate*

# STL Sacramento

## LEVEL 1&2 REVIEW CHECKLIST GENERAL CHEMISTRY

LAB NUMBERS: G6J270462, G6J270460, G6J270463, G6J200154 and G6J200155

ANALYSIS: 320.0 DATE: 11/03/06 ANALYST: OS

### LEVEL 1 RUN REVIEW:

YES      NO      NA

1. Samples are properly preserved and verified
2. Run set-up meets standard criteria (Curve, ICV, ICB, REF...CCV,CCB..)
3. Calibration criteria met
4. Calibration verifications and second source reference are in control
5. Batch QC are in control (Blank, LCS, MSQC, LCS dup when necessary)
6. Calculations have been checked
7. QAS +/or QAPP was consulted and followed for client specifics
8. Standard Tracking # noted on benchsheet +/or runlog
9. Manual integration performed, documented and approved

### LEVEL 1 DATA REVIEW:

1. Benchsheet complete
2. QAS +/or QAPP consulted and followed for client specifics for data entry
3. Data entered properly
4. Copy of prep sheet and prep checklist attached to run
5. Analyst observations, HTV's, Anomalies properly documented and attached to run.

Completed By & Date: OS 11/06/06

### LEVEL 2 REVIEW:

1. Level 1 checklist complete and verified
2. Deviations, Anomalies, Holding times checked and approved
3. Reprep/Reanalysis documented and chemist notified
4. Client specific criteria met
5. Data entry checked and released in Quantims
6. Indication on benchsheet on review and release (dated & signed)
7. Manual integration reviewed, approved, and properly documented

Completed By & Date: TOR 11/10/06

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

QA-159 NEK 7/00

## Sulfate in Filters

Lot:	G6J200154 and G6J200155		Analysis Date:	11/03/06	
Default RL =	0.040 mg/Filter		Batch:	6310296	
Sample ID	Work Order	Dilution for Fraction of Filter Analyzed*	Instrument Dilution Factor	Adjusted Sulfate (mg/L)	Total Sulfate (mg/Filter) % Rec
G6J200154-1	JGV93	12	1	12	2.384 0.4800 1.1443
G6J200154-2	JGV97	12	1	12	2.301 0.4800 1.1045
G6J200154-3	JGV98	12	1	12	2.137. 0.4800 1.0258
G6J200154-4	JGWAA	12	1	12	2.603 0.4800 1.2494
G6J200154-5	JGWAD	12	1	12	3.112 0.4800 1.4938
<hr/>					
G6J200155-1	JGWAN	12	1	12	2.218 0.4800 1.0646
G6J200155-2	JGWAW	12	1	12	2.098 0.4800 1.0070
G6J200155-3	JGWA0	12	1	12	2.346 0.4800 1.1261
G6J200155-4	JGWA1	12	1	12	2.304 0.4800 1.1059
G6J200155-5	JGWA2	12	1	12	2.832 0.4800 1.3594.
<hr/>					
MB		12	1	12	0.254 0.4800 0.1219
LCS		12	1	12	0.236 0.4800 0.9133 102%
DSC		12	1	12	0.030 0.4800 4.8144 100%
<hr/>					
* Dilution for Fraction of Filter Analyzed ----->			If entire Filter is used, enter 1		
			If only a portion of Filter is used, enter "Dilution" based on the fraction used (i.e. if 1/2 of filter is used for analysis, enter 12; if half of filter is used, enter 2, etc)		
LCS True Value =	4.800 mg/Filter				
MS/SD True Value =	N/A				
Analyst:	O.S		Date Entered:	11/05/06	
	Reviewed By:			TOC 11-10-06	

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEETRun Date: 11/06/06  
Time: 12:51:04

## STL Sacramento

## PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: GK Sulfate (9056, Ion Chromatography)  
 QC BATCH #: 6310296 INITIALS: DATA ENTRY:  
 PREP DATE: 11/02/06 15:30 PREP \_\_\_\_\_ INITIALS \_\_\_\_\_  
 COMP DATE: 11/02/06 16:30 ANAL \_\_\_\_\_ DATE \_\_\_\_\_  
 USER: OUNIS

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JGV93-1-AL	G-6J200154-001	XX S 82 GK YM	Y-D	_____	P-0778
JGV97-1-AL	G-6J200154-002	XX S 82 GK YM	Y-D	_____	P-0779
JGV98-1-AL	G-6J200154-003	XX S 82 GK YM	Y-D	_____	P-0780
JGWAA-1-AL	G-6J200154-004	XX S 82 GK YM	Y-D	_____	P-0781
JGWAD-1-AL	G-6J200154-005	XX S 82 GK YM	Y-D	_____	000546
JGWAN-1-AL	G-6J200155-001	XX S 82 GK YM	Y-D	_____	P-0773
JGWAW-1-AL	G-6J200155-002	XX S 82 GK YM	Y-D	_____	P-0774
JGWA0-1-AL	G-6J200155-003	XX S 82 GK YM	Y-D	_____	P-0775
JGWA1-1-AL	G-6J200155-004	XX S 82 GK YM	Y-D	_____	P-0776
JGWA2-1-AL	G-6J200155-005	XX S 82 GK YM	Y-D	_____	000545
JH250-1-AA	G-6K060000-296-B	XX S 82 GK YM	_____	INTRA-LAB BLANK	
JH250-1-AC	G-6K060000-296-C	XX S 82 GK YM	_____	INTRA-LAB CHECK	
JH250-1-AD	G-6K060000-296-L	XX S 82 GK YM	_____	INTRA-LAB CHECK	

## Control Limits

(85-115)

(85-115)

PDE115

Severn Trent Laboratories, Inc.  
Inorganics Batch Review  
QC Batch 6310296

Date 11/06/2006  
Time 15:53:23

## Method Code: GK Sulfate (9056, Ion Chromatography)

Work Order	Result	Units	IDL/Dil	Prep - Anal.	Total Solids	PSRL N	Rounded Result	Output IDL
	T.144	mg	0.48	11/02-11/03/06	.00	N	1.1 J	0.48
JGV97-1-AL	1.104	mg	0.48	11/02-11/03/06	.00	N	1.1 J	0.48
JGV98-1-AL	1.026	mg	0.48	11/02-11/03/06	.00	N	1.0 J	0.48
JGWAA-1-AL	1.249	mg	0.48	11/02-11/03/06	.00	N	1.2 J	0.48
JGWAD-1-AL	1.494	mg	0.48	11/02-11/03/06	.00	N	1.5 J	0.48
JGWAN-1-AL	1.065	mg	0.48	11/02-11/03/06	.00	N	1.1 J	0.48
JGWAH-1-AL	1.007	mg	0.48	11/02-11/03/06	.00	N	1.0 J	0.48
JGWA0-1-AL	1.126	mg	0.48	11/02-11/03/06	.00	N	1.1 J	0.48
JGWA1-1-AL	1.106	mg	0.48	11/02-11/03/06	.00	N	1.1 J	0.48
JGWA2-1-AL	1.359	mg	0.48	11/02-11/03/06	.00	N	1.4 J	0.48
JH250-1-AA	0.122	mg	0.48	11/02-11/03/06	.00		0.12 B	0.48

Notes:  
 J Method blank contamination. The associated method blank contains the target analyte at a reportable level.  
 B Estimated result. Result is less than RL.

LCS - LCSD Exception Code

Work Order	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	SPIKE Pct.	Recovered DUP	RPD	Prep - Anal.	Dil.
JH250-1-AC	4.800	4.9133	4.8144	4.8144	102.36	100.30	2.03	11/02-11/03/06	1.00

Notes:

TEST	TOTAL #	SAMPLE #	PRODUCTION TOTALS	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

10/27/06

Method 300.0

Sequence: 061103A  
Operator: ounisDate: 11/27/06  
Elout: 2867-WC-30-7

Page 1 of 6

Printed: 11/6/2006 4:05:07 PM

SONIA DUNE

11/03/06

Title: AS14A 013004

Datasource: D4N34341\_local  
Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006  
Timebase: ICS1000  
#Samples: 47Created: 11/3/2006 9:05:55 AM by ounis  
Last Update: 11/6/2006 4:04:27 PM by ounis

No.	Name	Dil. Factor	Type	F [ppm] Fluoride	CL [ppm] Chloride	NO2 [ppm] Nitrite	Br [ppm] Bromide	NO3 [ppm] Nitrate	PO4 [ppm] Phosphate	SO4 [ppm] Sulfate
1	BLANK	1.0000	Standard	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	1R	1.0000	Standard	0.516	0.955	n.a.	0.540	n.a.	0.241	0.979
3	2R	1.0000	Standard	2.414	4.886	0.508	2.425	0.510	2.207	5.046
4	3R	1.0000	Standard	4.694	9.799	0.986	4.763	0.977	4.473	10.016
5	4R	1.0000	Standard	9.607	20.135	1.938	9.602	1.930	9.180	20.314
6	5R	1.0000	Standard	24.579	50.345	4.847	24.141	4.812	23.803	49.477
7	6R	1.0000	Standard	51.191	99.859	10.221	51.529	10.272	52.797	100.174
8	BLANK	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
9	ICV	1.0000	Unknown	29.398	74.791	7.405	28.949	7.274	29.080	75.161
10	ICB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
11	20X G6J250396-7 BX	20.0000	Unknown	n.a.	6.902	n.a.	n.a.	n.a.	n.a.	4809.605
12	50X G6J250396-7 AX	50.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	3058.760
13	50X G6J250396-7 BK	50.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	5040.236
14	JHGHW 1X G6J270462-3	1.0000	Unknown	0.212	29.354	n.a.	n.a.	1.802	n.a.	13.991
15	JHGHH 1X G6J270460-3	1.0000	Unknown	n.a.	7.224	n.a.	n.a.	0.693	n.a.	6.390
16	JHGHL 1X G6J270460-7	1.0000	Unknown	n.a.	0.353	n.a.	n.a.	n.a.	n.a.	1.014
17	JHGHM 1X G6J270460-8	1.0000	Unknown	n.a.	0.347	n.a.	n.a.	n.a.	n.a.	0.999
18	JHGHN 1X G6J270460-9	1.0000	Unknown	0.222	13.126	n.a.	n.a.	n.a.	n.a.	0.370
19	JHGHB 1X G6J270463-2	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.630
20	JHGJA 1X G6J270463-4	1.0000	Unknown	0.170	1.068	n.a.	n.a.	n.a.	n.a.	2.009
21	CCV	1.0000	Unknown	25.061	51.560	4.916	24.520	4.918	24.262	50.284
22	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
23	JHGJD 1X G6J270463-6	1.0000	Unknown	n.a.	1.446	n.a.	n.a.	n.a.	n.a.	0.173
24	JHGJG 1X G6J270463-8	1.0000	Unknown	0.259	0.254	n.a.	n.a.	n.a.	n.a.	0.170
25	JHGJK 1X G6J270463-11	1.0000	Unknown	0.210	0.428	n.a.	n.a.	n.a.	n.a.	1.239
26	JHGHS 1X G6J270462-9	1.0000	Unknown	0.257	5.149	n.a.	n.a.	n.a.	n.a.	7.816
27	JGV93 1X G6J200154-1	1.0000	Unknown	n.a.	0.226	n.a.	n.a.	0.296	0.380	2.384
28	JGV97 1X G6J200154-2	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	0.316	0.442	2.301
29	JGV98 1X G6J200154-3	1.0000	Unknown	0.197	0.460	n.a.	n.a.	0.265	0.418	2.137
30	JHGHW S 1X G6J270462-3	1.0000	Unknown	0.204	24.863	n.a.	n.a.	1.789	n.a.	24.422
31	JHGHW D 1X G6J270462-3	1.0000	Unknown	0.208	24.824	n.a.	n.a.	1.807	n.a.	24.342
32	DCS	1.0000	Unknown	31.101	78.577	n.a.	30.422	7.682	30.120	76.788
33	CCV	1.0000	Unknown	25.140	51.737	4.930	24.707	4.937	24.443	50.552
34	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
35	JGWAA 1X G6J200154-4	1.0000	Unknown	n.a.	0.214	n.a.	n.a.	0.310	0.442	2.603
36	JGWAD 1X G6J200154-5	1.0000	Unknown	0.219	0.282	n.a.	n.a.	0.413	0.440	3.112
37	JGWAN 1X G6J200155-1	1.0000	Unknown	n.a.	0.180	n.a.	n.a.	0.284	0.483	2.218
38	JGWAW 1X G6J200155-2	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	0.278	0.488	2.098
39	JGWA0 1X G6J200155-3	1.0000	Unknown	n.a.	0.302	n.a.	n.a.	0.373	0.540	2.346
40	JGWA1 1X G6J200155-4	1.0000	Unknown	n.a.	0.260	n.a.	n.a.	0.258	0.346	2.304

Method 300.0 ; reporting -S04

Title: AS14A 013004

Datasource: D4N34341\_local  
 Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006  
 Timebase: ICS1000  
 #Samples: 47

Created: 11/3/2006 9:05:55 AM by ounis  
 Last Update: 11/6/2006 4:04:27 PM by ounis

No.	Name	Status	Program	Method
1	BLANK	Finished	AS14A PROG3	AS14A METHODHIGH 8PTCURVE
2	1R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
3	2R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
4	3R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
5	4R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
6	5R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
7	6R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
8	BLANK	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
9	ICV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
10	ICB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
11	20X G6J250396-7 B	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
12	50X G6J250396-7 A	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
13	50X G6J250396-7 B	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
14	JHGHW 1X G6J270462-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
15	JHGHH 1X G6J270460-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
16	JHGHL 1X G6J270460-7	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
17	JHGHM 1X G6J270460-8	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
18	JHGHN 1X G6J270460-9	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
19	JHGHH 1X G6J270463-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
20	JHGJA 1X G6J270463-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
21	CCV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
22	CCB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
23	JHGJD 1X G6J270463-6	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
24	JHGJJ 1X G6J270463-8	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
25	JHGJK 1X G6J270463-11	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
26	JHGHH 1X G6J270462-9	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
27	JGV93 1X G6J200154-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
28	JGV97 1X G6J200154-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
29	JGV98 1X G6J200154-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
30	JHGHW S 1X G6J270462-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
31	JHGHW D 1X G6J270462-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
32	DCS	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
33	CCV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
34	CCB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
35	JGWAA 1X G6J200154-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
36	JGWAD 1X G6J200154-5	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
37	JGWAN 1X G6J200155-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
38	JGWAW 1X G6J200155-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
39	JGWA0 1X G6J200155-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
40	JGWA1 1X G6J200155-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE

Sequence: 061103A  
Operator: ounis

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Printed: 11/6/2006 4:05:07 PM

Title: AS14A 013004

Datasource: D4N34341\_local  
Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006  
Timebase: ICS1000  
#Samples: 47

Created: 11/3/2006 9:05:55 AM by ounis  
Last Update: 11/6/2006 4:04:27 PM by ounis

No.	Name	Inj. Date/Time	Inj. Vol.	Sample ID	Comment	Weight
1	BLANK	10/27/2006 9:09:37 AM	100.0		OUNI SONIA	1.0000
2	1R	10/27/2006 9:32:06 AM	100.0	2724-WC-31-6	OUNI SONIA	1.0000
3	2R	10/27/2006 9:49:36 AM	100.0	2724-WC-31-9	OUNI SONIA	1.0000
4	3R	10/27/2006 10:07:07 AM	100.0	2724-WC-32-1	OUNI SONIA	1.0000
5	4R	10/27/2006 10:24:37 AM	100.0	2724-WC-32-4	OUNI SONIA	1.0000
6	5R	10/27/2006 10:42:07 AM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
7	6R	10/27/2006 10:59:37 AM	100.0	2724-WC-32-10	OUNI SONIA	1.0000
8	BLANK	11/3/2006 9:21:13 AM	100.0		OUNI SONIA	1.0000
9	ICV	11/3/2006 9:38:43 AM	100.0	2724-WC-12-5	OUNI SONIA	1.0000
10	ICB	11/3/2006 9:56:13 AM	100.0		OUNI SONIA	1.0000
11	20X G6J250396-7 B	11/3/2006 10:13:43 AM	100.0		OUNI SONIA	1.0000
12	50X G6J250396-7 A	11/3/2006 10:31:13 AM	100.0		OUNI SONIA	1.0000
13	50X G6J250396-7 B	11/3/2006 10:48:43 AM	100.0		OUNI SONIA	1.0000
14	JHGHW 1X G6J270462-3	11/3/2006 11:12:27 AM	100.0		OUNI SONIA	1.0000
15	JHGHG 1X G6J270460-3	11/3/2006 11:29:57 AM	100.0		OUNI SONIA	1.0000
16	JHGHL 1X G6J270460-7	11/3/2006 11:47:27 AM	100.0		OUNI SONIA	1.0000
17	JHGHM 1X G6J270460-8	11/3/2006 12:04:57 PM	100.0		OUNI SONIA	1.0000
18	JHGHN 1X G6J270460-9	11/3/2006 12:22:27 PM	100.0		OUNI SONIA	1.0000
19	JHGH8 1X G6J270463-2	11/3/2006 12:39:57 PM	100.0		OUNI SONIA	1.0000
20	JHGJA 1X G6J270463-4	11/3/2006 12:57:28 PM	100.0		OUNI SONIA	1.0000
21	CCV	11/3/2006 1:14:58 PM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
22	CCB	11/3/2006 1:32:28 PM	100.0		OUNI SONIA	1.0000
23	JHGJD 1X G6J270463-6	11/3/2006 1:49:58 PM	100.0		OUNI SONIA	1.0000
24	JHGJJG 1X G6J270463-8	11/3/2006 2:07:28 PM	100.0		OUNI SONIA	1.0000
25	JHGJK 1X G6J270463-11	11/3/2006 2:24:58 PM	100.0		OUNI SONIA	1.0000
26	JHGH5 1X G6J270462-9	11/3/2006 2:42:29 PM	100.0		OUNI SONIA	1.0000
27	JGV93 1X G6J200154-1	11/3/2006 2:59:59 PM	100.0		OUNI SONIA	1.0000
28	JGV97 1X G6J200154-2	11/3/2006 3:17:29 PM	100.0		OUNI SONIA	1.0000
29	JGV98 1X G6J200154-3	11/3/2006 3:34:59 PM	100.0		OUNI SONIA	1.0000
30	JHGHW S 1X G6J270462-3	11/3/2006 3:52:29 PM	100.0	2611-WC-49-11	OUNI SONIA	1.0000
31	JHGHW D 1X G6J270462-3	11/3/2006 4:09:59 PM	100.0	2611-WC-49-11	OUNI SONIA	1.0000
32	DCS	11/3/2006 4:27:29 PM	100.0	2724-WC-12-5	OUNI SONIA	1.0000
33	CCV	11/3/2006 4:44:59 PM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
34	CCB	11/3/2006 5:02:29 PM	100.0		OUNI SONIA	1.0000
35	JGWAA 1X G6J200154-4	11/3/2006 5:19:59 PM	100.0		OUNI SONIA	1.0000
36	JGWAD 1X G6J200154-5	11/3/2006 5:37:30 PM	100.0		OUNI SONIA	1.0000
37	JGWAN 1X G6J200155-1	11/3/2006 5:55:00 PM	100.0		OUNI SONIA	1.0000
38	JGWAW 1X G6J200155-2	11/3/2006 6:12:30 PM	100.0		OUNI SONIA	1.0000
39	JGWA0 1X G6J200155-3	11/3/2006 6:30:01 PM	100.0		OUNI SONIA	1.0000
40	JGWA1 1X G6J200155-4	11/3/2006 6:47:31 PM	100.0		OUNI SONIA	1.0000

Sequence: 061103A  
Operator: ounis

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Printed: 11/6/2006 4:05:07 PM

Title: AS14A 013004

Datasource: D4N34341\_local

Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006

Timebase: ICS1000

#Samples: 47

Created:

11/3/2006 9:05:55 AM by ounis

Last Update:

11/6/2006 4:04:27 PM by ounis

No.	Name	Dil. Factor	Type	F [ppm] Fluoride	CL [ppm] Chloride	NO2 [ppm] Nitrite	Br [ppm] Bromide	NO3 [ppm] Nitrate	PO4 [ppm] Phosphate	SO4 [ppm] Sulfate
41	JGWA2 1X G6J200155-5	1.0000	Unknown	n.a.	0.182	n.a.	n.a.	0.296	0.427	2.832
42	MB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	0.336	0.254
43	LCS	1.0000	Unknown	4.788	9.882	0.976	4.750	0.996	4.718	10.236
44	DCS	1.0000	Unknown	4.732	9.707	0.952	4.688	0.977	4.671	10.030
45	CCV	1.0000	Unknown	25.095	51.792	4.931	24.648	4.927	24.373	50.537
46	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
47	SHUTDOWN	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Sum			240.471	631.468	42.610	235.685	59.392	239.108	13526.347

Sequence: 061103A  
Operator: ounis

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Printed: 11/6/2006 4:05:07 PM

Title: AS14A 013004

Datasource: D4N34341\_local  
Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006  
Timebase: ICS1000  
#Samples: 47

Created: 11/3/2006 9:05:55 AM by ounis  
Last Update: 11/6/2006 4:04:27 PM by ounis

No.	Name	Status	Program	Method
41	JGWA2 1X G6J200155-5	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
42	MB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
43	LCS	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
44	DCS	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
45	CCV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
46	CCB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
47	SHUTDOWN	Finished	ICS1000 SHUTDOWN PROGRAM	AS14A METHODHIGH 8PTCURVE
	Sum			

Sequence: 061103A  
Operator: ounis

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Printed: 11/6/2006 4:05:07 PM

Title: AS14A 013004

Datasource: D4N34341\_local

Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006

Timebase: ICS1000

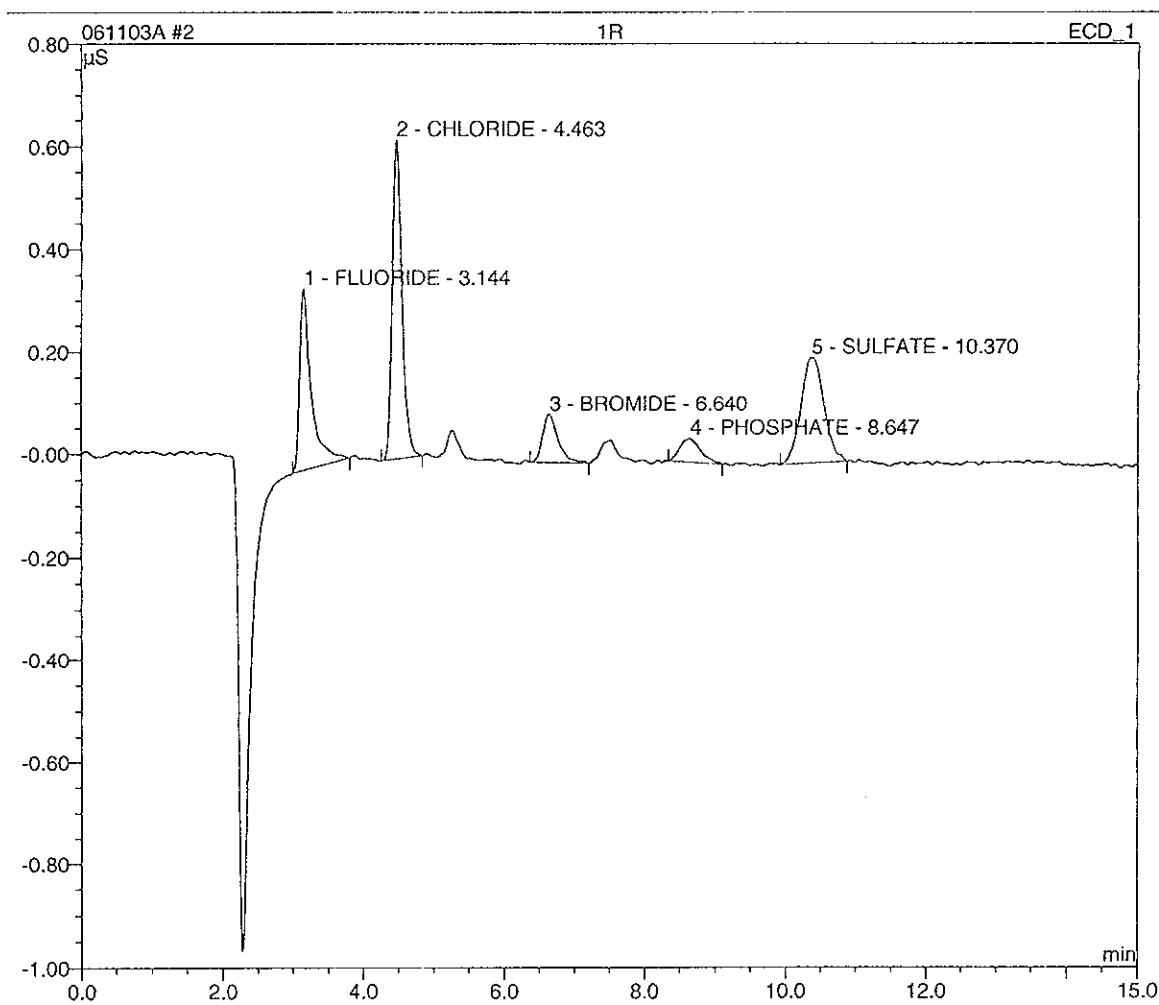
#Samples: 47

Created: 11/3/2006 9:05:55 AM by ounis  
Last Update: 11/6/2006 4:04:27 PM by ounis

No.	Name	Inj. Date/Time	Inj. Vol.	Sample ID	Comment	Weight
41	JGWA2 1X G6J200155-5	11/3/2006 7:05:01 PM	100.0		OUNI SONIA	1.0000
42	MB	11/3/2006 7:22:31 PM	100.0		OUNI SONIA	1.0000
43	LCS	11/3/2006 7:40:01 PM	100.0	2724-WC-32-10	OUNI SONIA	1.0000
44	DCS	11/3/2006 7:57:32 PM	100.0	2724-WC-32-10	OUNI SONIA	1.0000
45	CCV	11/3/2006 8:15:02 PM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
46	CCB	11/3/2006 8:32:32 PM	100.0		OUNI SONIA	1.0000
47	SHUTDOWN	11/3/2006 8:50:03 PM	100.0		OUNI SONIA	1.0000
	Sum					

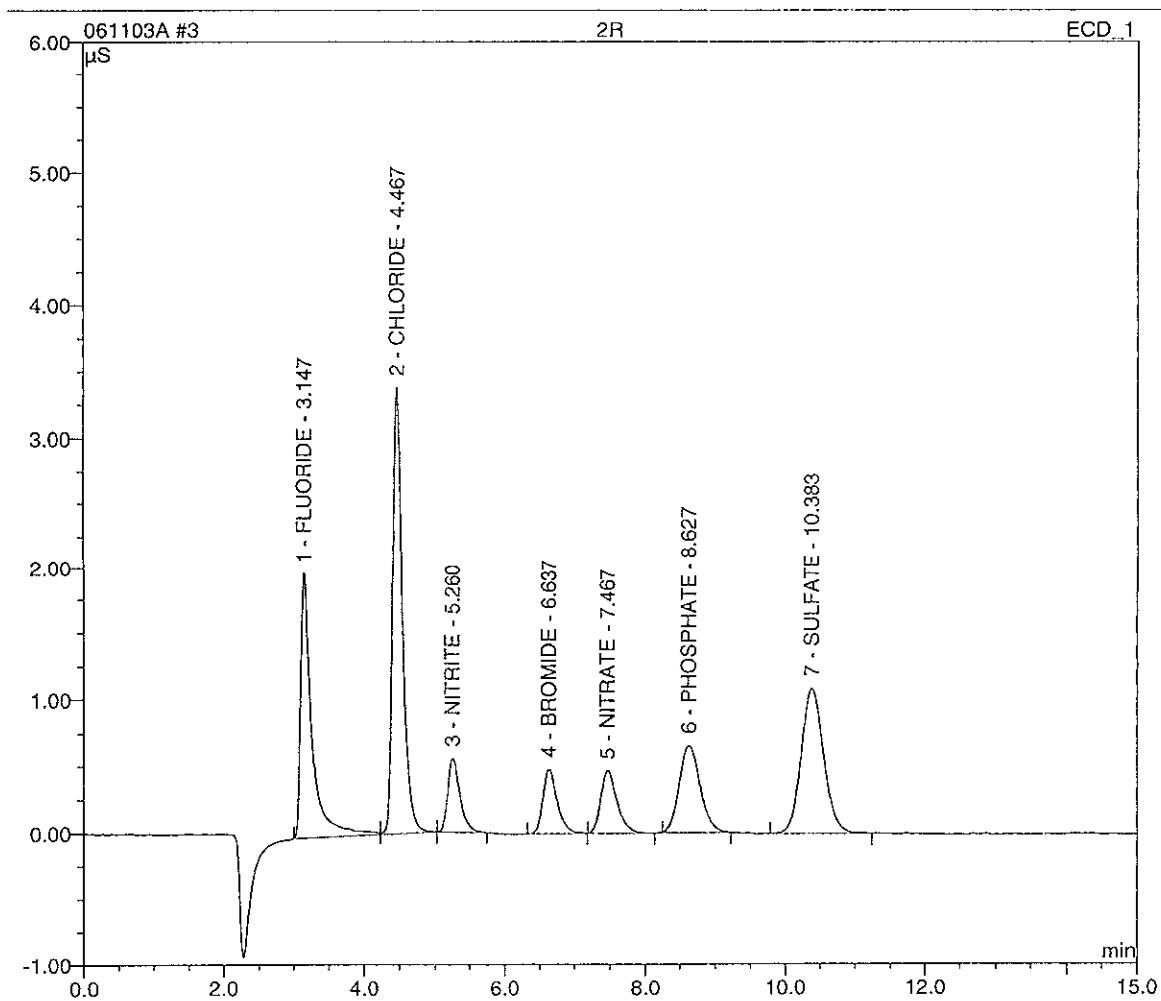
Sample Name:	1R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	27.10.06 09:32	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}^*\text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.14	FLUORIDE	BMB	0.068	0.355	0.5156
2	4.46	CHLORIDE	BMB	0.100	0.622	0.9546
3	6.64	BROMIDE	BMB	0.024	0.094	0.5399
4	8.65	PHOSPHATE	BMB	0.016	0.047	0.2405
5	10.37	SULFATE	BMB	0.078	0.206	0.9793
TOTAL:				0.29	1.32	3.23



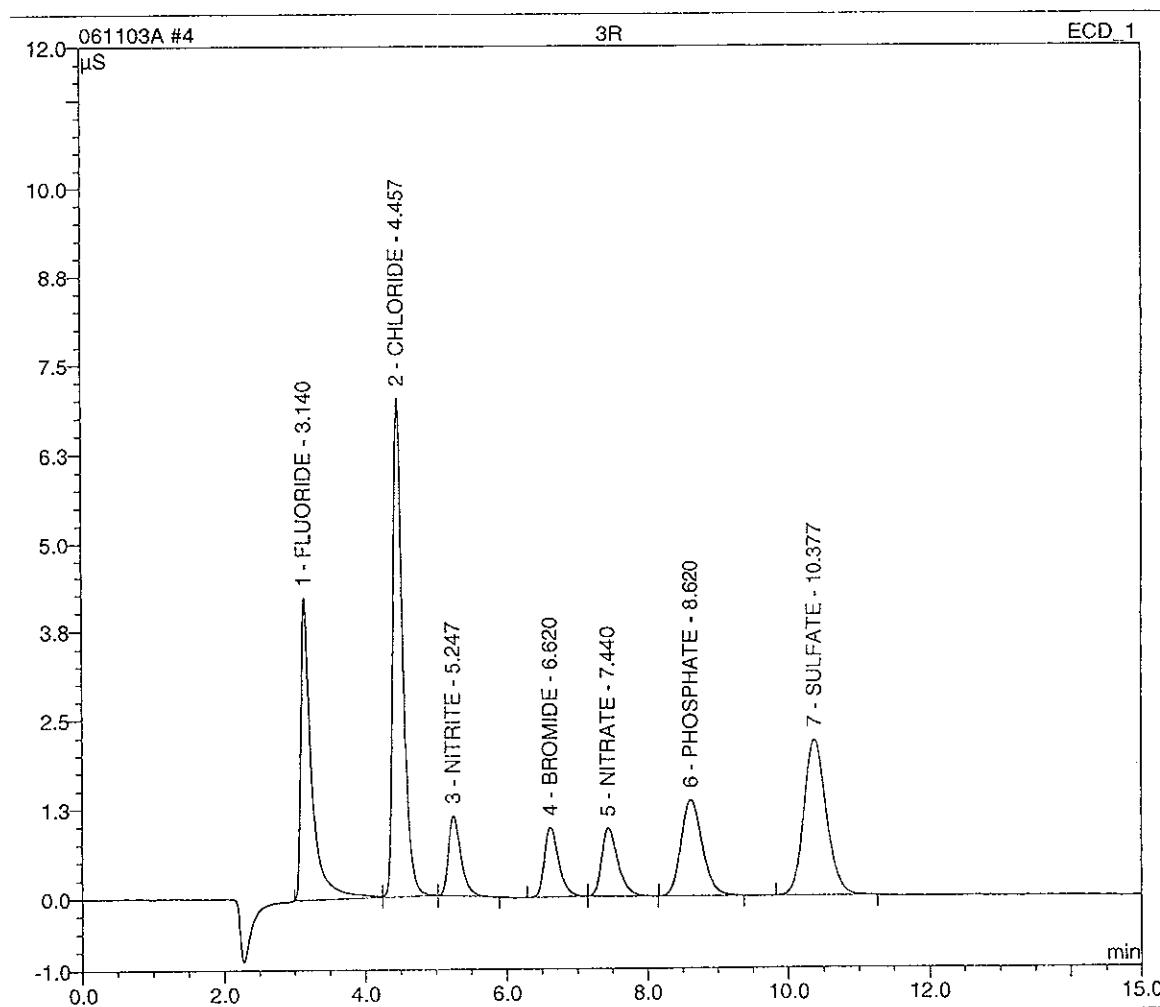
Sample Name:	2R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	27.10.06 09:49	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.15	FLUORIDE	BM	0.375	1.996	2.4143
2	4.47	CHLORIDE	MB	0.555	3.384	4.8857
3	5.26	NITRITE	BMB	0.112	0.553	0.5082
4	6.64	BROMIDE	BMB	0.116	0.486	2.4253
5	7.47	NITRATE	BMB	0.128	0.471	0.5098
6	8.63	PHOSPHATE	BMB	0.227	0.656	2.2065
7	10.38	SULFATE	BMB	0.407	1.090	5.0464
TOTAL:				1.92	8.64	18.00



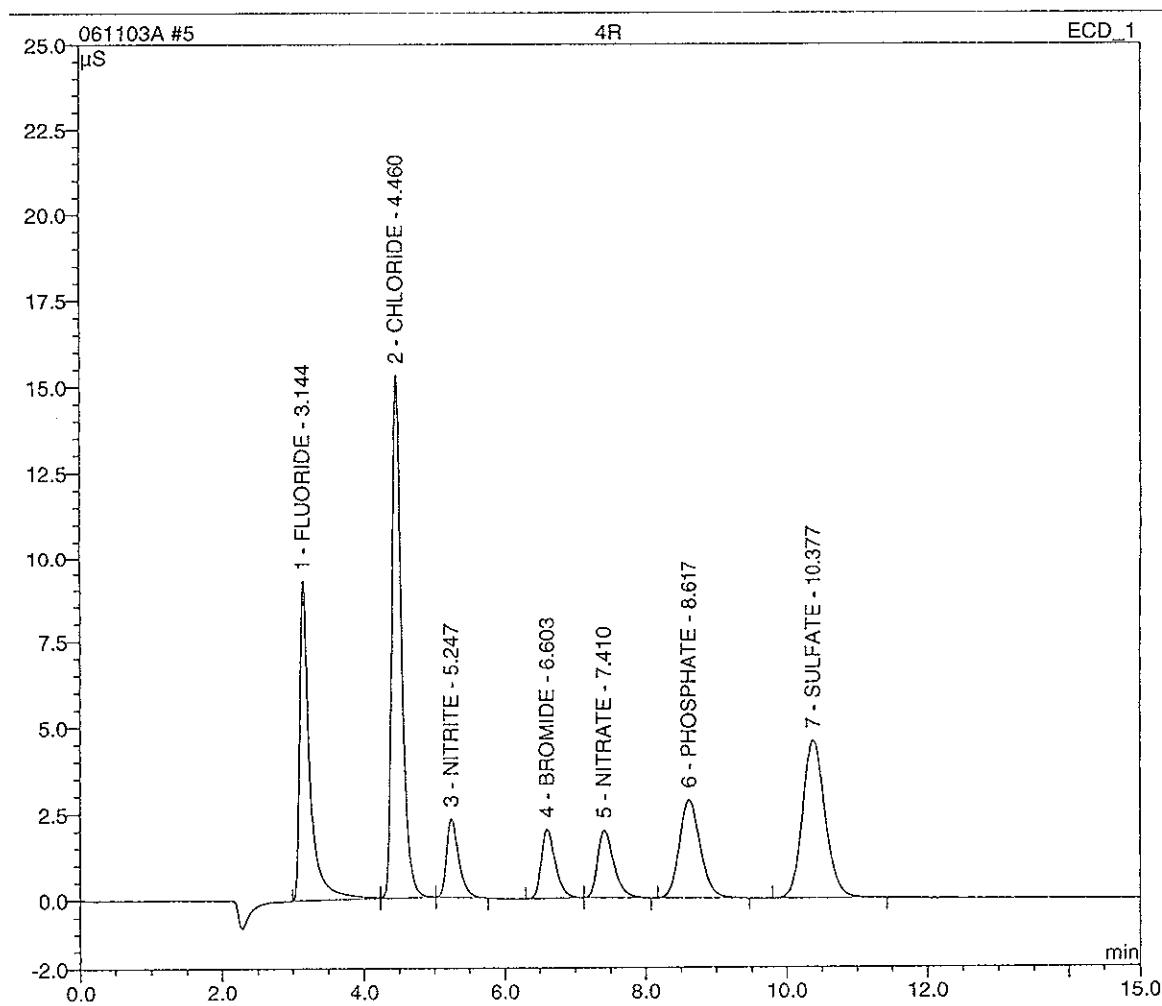
Sample Name:	3R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	27.10.06 10:07	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.14	FLUORIDE	BM	0.743	4.231	4.6944
2	4.46	CHLORIDE	Mb	1.139	7.021	9.7986
3	5.25	NITRITE	bMB	0.226	1.123	0.9863
4	6.62	BROMIDE	BMB	0.229	0.977	4.7628
5	7.44	NITRATE	BMB	0.257	0.952	0.9766
6	8.62	PHOSPHATE	BMB	0.472	1.349	4.4733
7	10.38	SULFATE	BMB	0.816	2.197	10.0159
TOTAL:				3.88	17.85	35.71



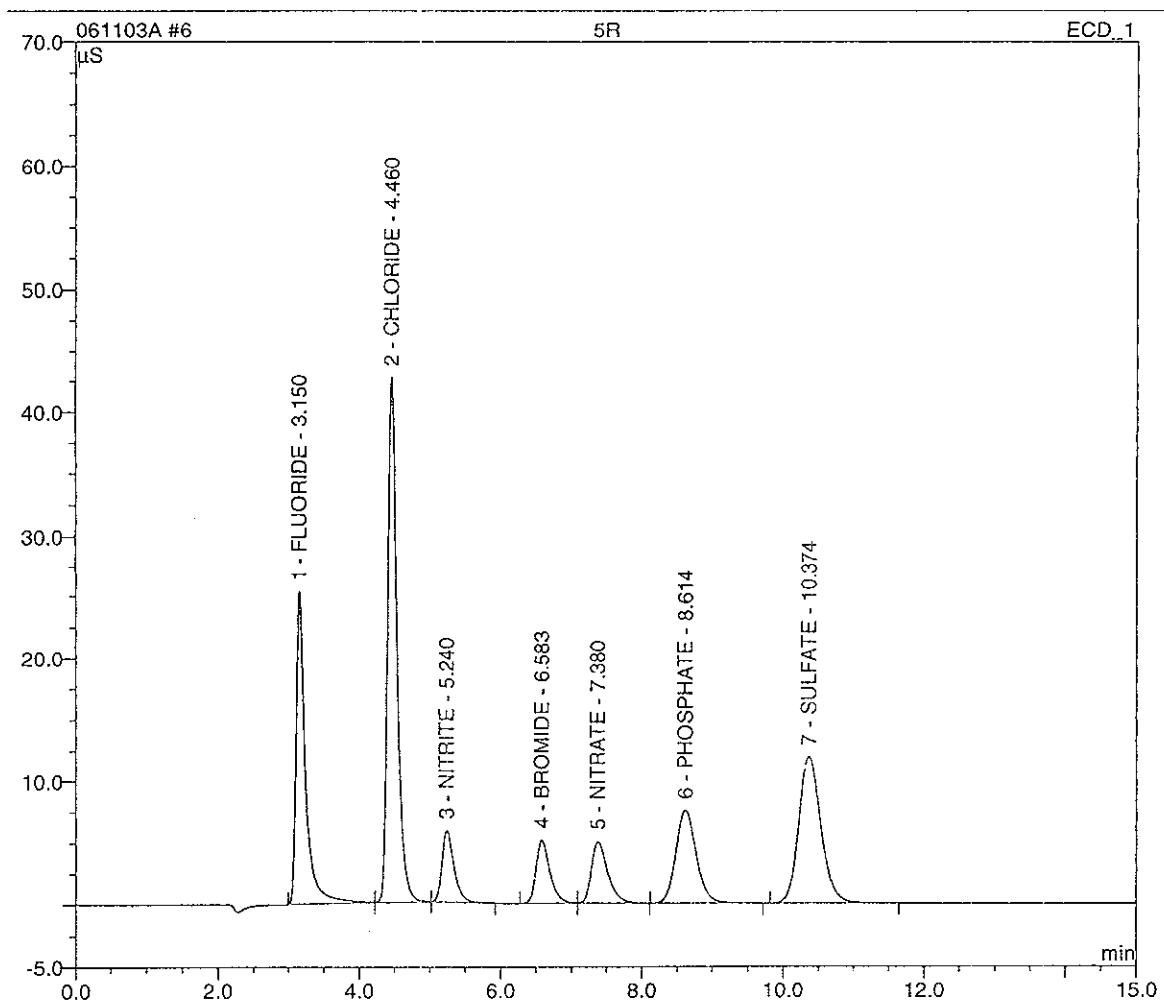
Sample Name:	4R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	27.10.06 10:24	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.14	FLUORIDE	BM	1.537	9.293	9.6066
2	4.46	CHLORIDE	Mb	2.425	15.261	20.1355
3	5.25	NITRITE	bMB	0.452	2.273	1.9375
4	6.60	BROMIDE	BMB	0.464	2.007	9.6020
5	7.41	NITRATE	BMB	0.522	1.958	1.9299
6	8.62	PHOSPHATE	BMB	0.978	2.837	9.1801
7	10.38	SULFATE	BMB	1.685	4.558	20.3143
TOTAL:				8.06	38.19	72.71



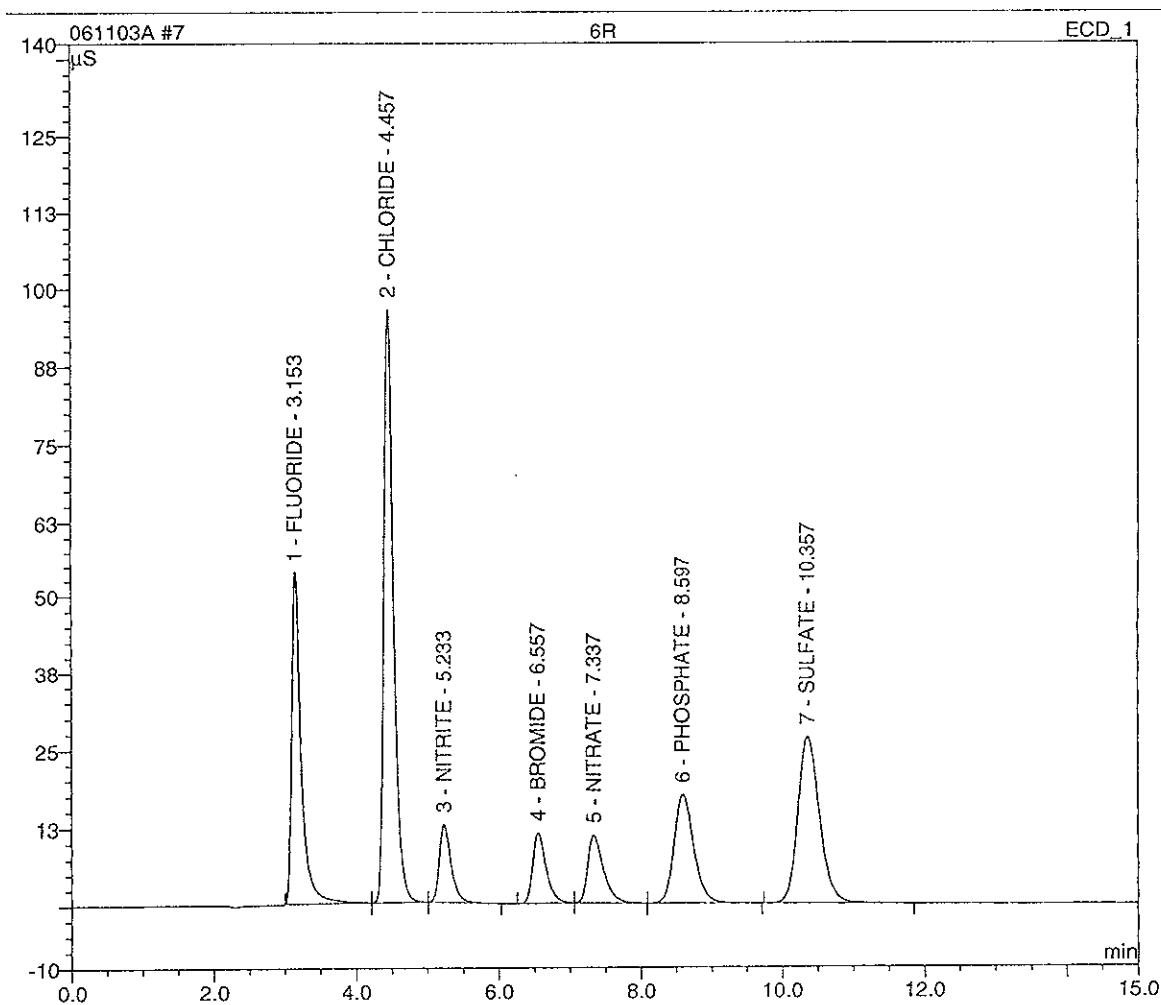
Sample Name:	5R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	27.10.06 10:42	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.15	FLUORIDE	BM	3.956	25.306	24.5786
2	4.46	CHLORIDE	Mb	6.629	42.651	50.3445
3	5.24	NITRITE	bMB	1.145	5.818	4.8467
4	6.58	BROMIDE	BMB	1.171	5.144	24.1410
5	7.38	NITRATE	bMB	1.322	5.013	4.8117
6	8.61	PHOSPHATE	BMB	2.553	7.564	23.8027
7	10.37	SULFATE	BMB	4.314	11.956	49.4767
TOTAL:				21.09	103.45	182.00



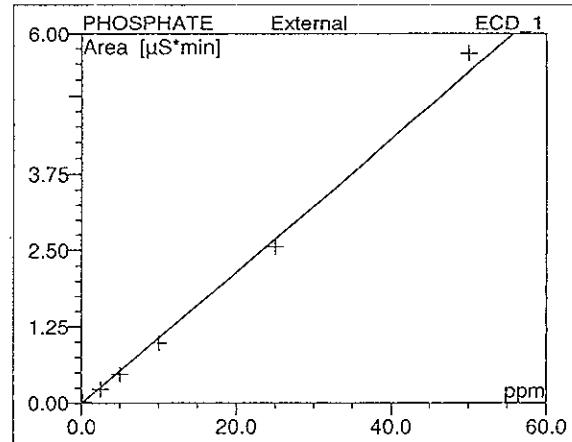
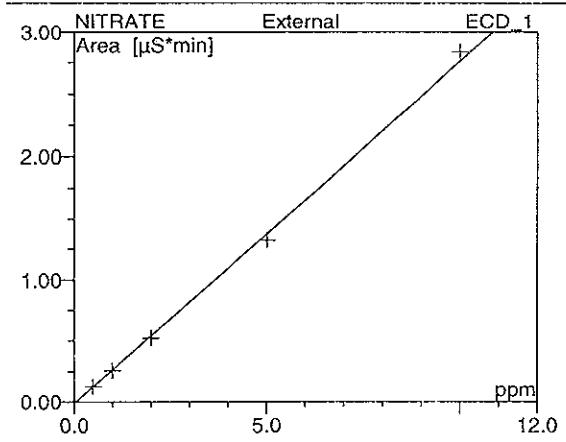
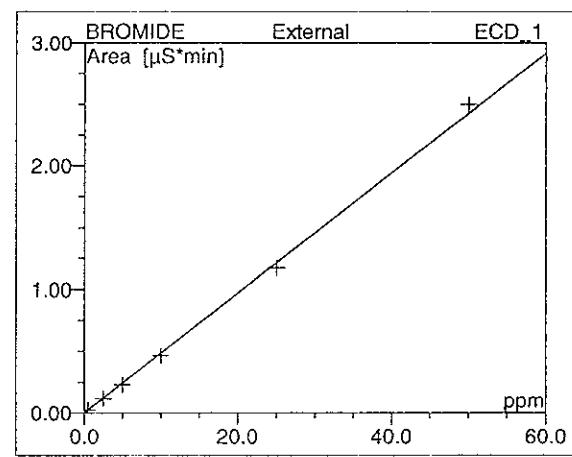
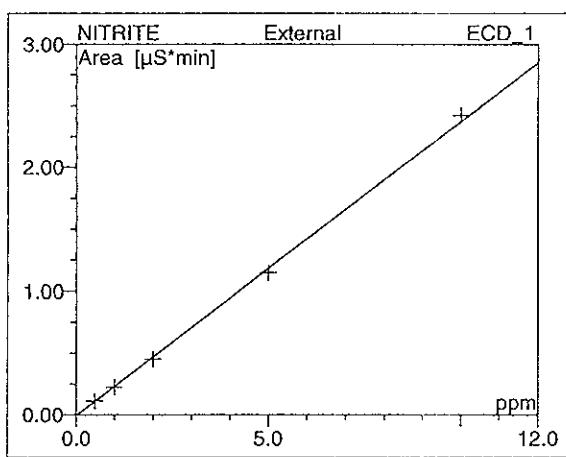
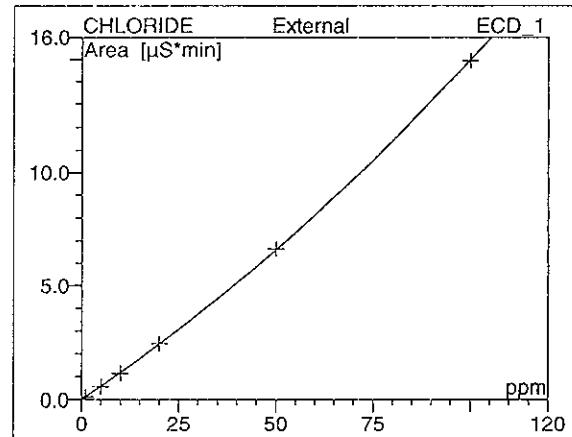
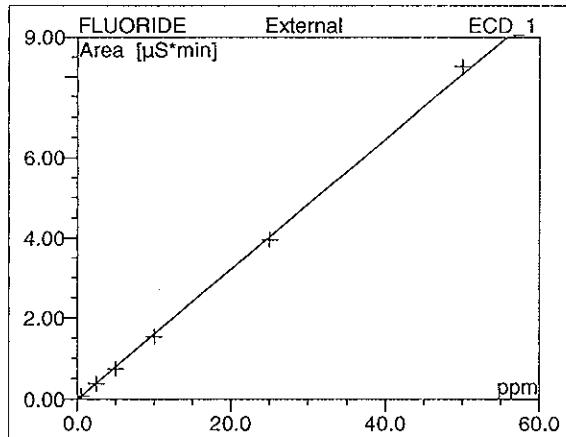
Sample Name:	6R	Inj. Vol.:	100.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	27.10.06 10:59	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.15	FLUORIDE	BM	8.257	53.723	51.1906
2	4.46	CHLORIDE	Mb	14.954	96.128	99.8595
3	5.23	NITRITE	bMB	2.424	12.524	10.2213
4	6.56	BROMIDE	BMb	2.501	11.314	51.5290
5	7.34	NITRATE	bMB	2.838	10.948	10.2721
6	8.60	PHOSPHATE	BMB	5.674	17.426	52.7968
7	10.36	SULFATE	BMB	9.474	26.829	100.1743
TOTAL:				46.12	228.89	376.04

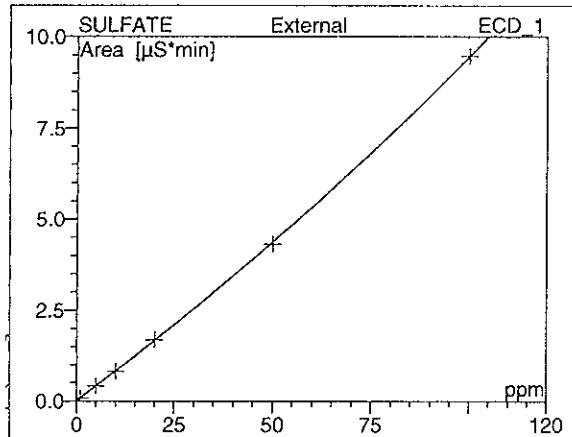


**Calibration Batch Report**

Sequence:	061103A	Inj. Vol.:	100.0
Program:	AS14A PROGRAM	Operator:	SACPC205ICS1000
Init. Date/Time:	10/27/06 10:59	Run Time:	15.00



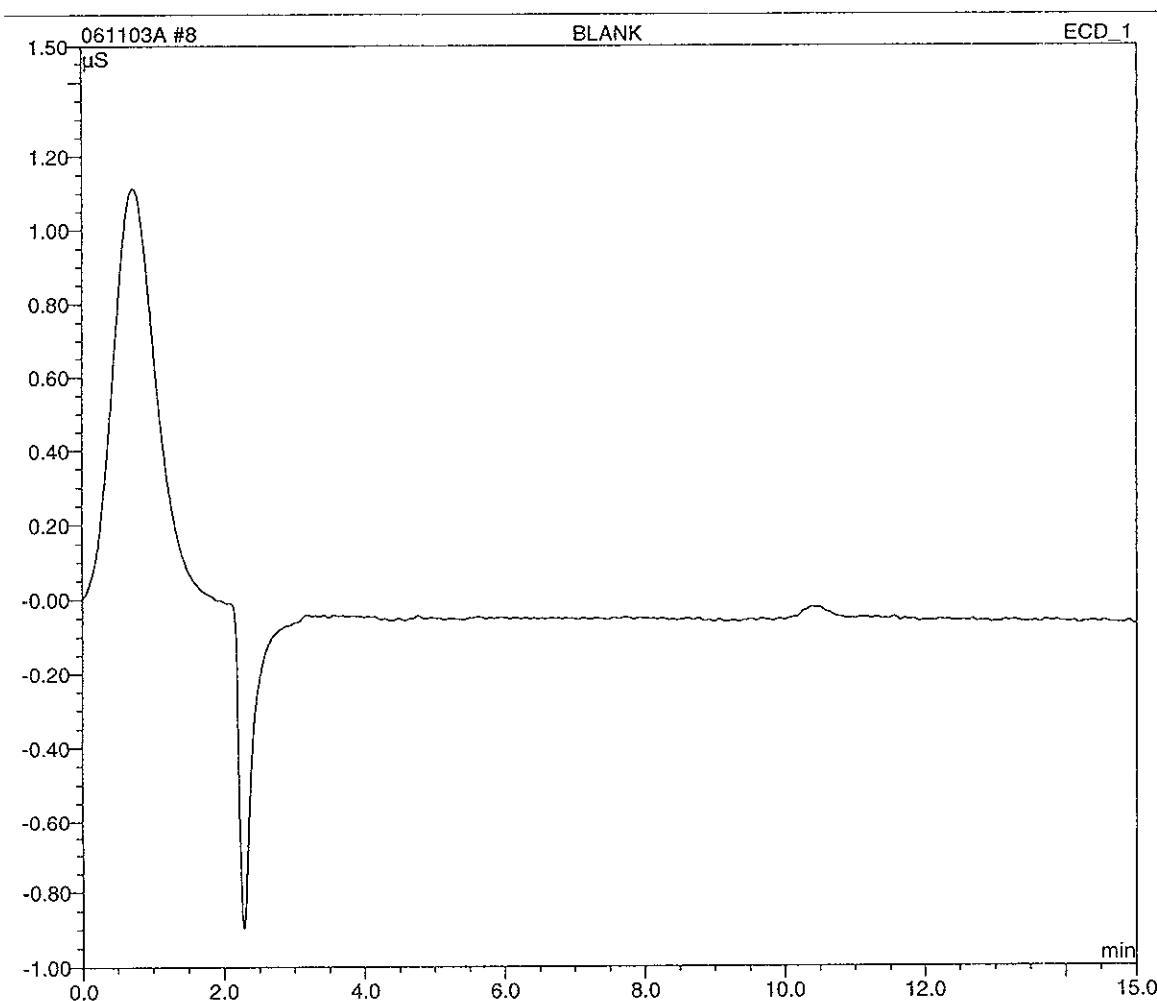
Sequence:	061103A	Inj. Vol.:	100.0
Program:	AS14A.PROGRAM	Operator:	n.a.
Init. Date/Time:	10/27/06 10:59	Run Time:	15.00



No.	Ret. Time min	Peak Name	Cal. Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr. Coeff. %
1	3.15	FLUORIDE	X0LOff	6	-0.016	0.162	0.000	99.957
2	4.46	CHLORIDE	X0QOff	6	-0.009	0.114	0.000	99.657
3	5.23	NITRITE	X0LOff	5	-0.009	0.238	0.000	99.953
4	6.56	BROMIDE	X0LOff	6	-0.002	0.049	0.000	99.933
5	7.34	NITRATE	X0LOff	5	-0.014	0.278	0.000	99.931
6	8.60	PHOSPHATE	X0LOff	6	-0.010	0.108	0.000	99.783
7	10.36	SULFATE	X0QOff	6	0.000	0.080	0.000	99.857
AVERAGE:					-0.0084	0.1467	0.0001	99.8672

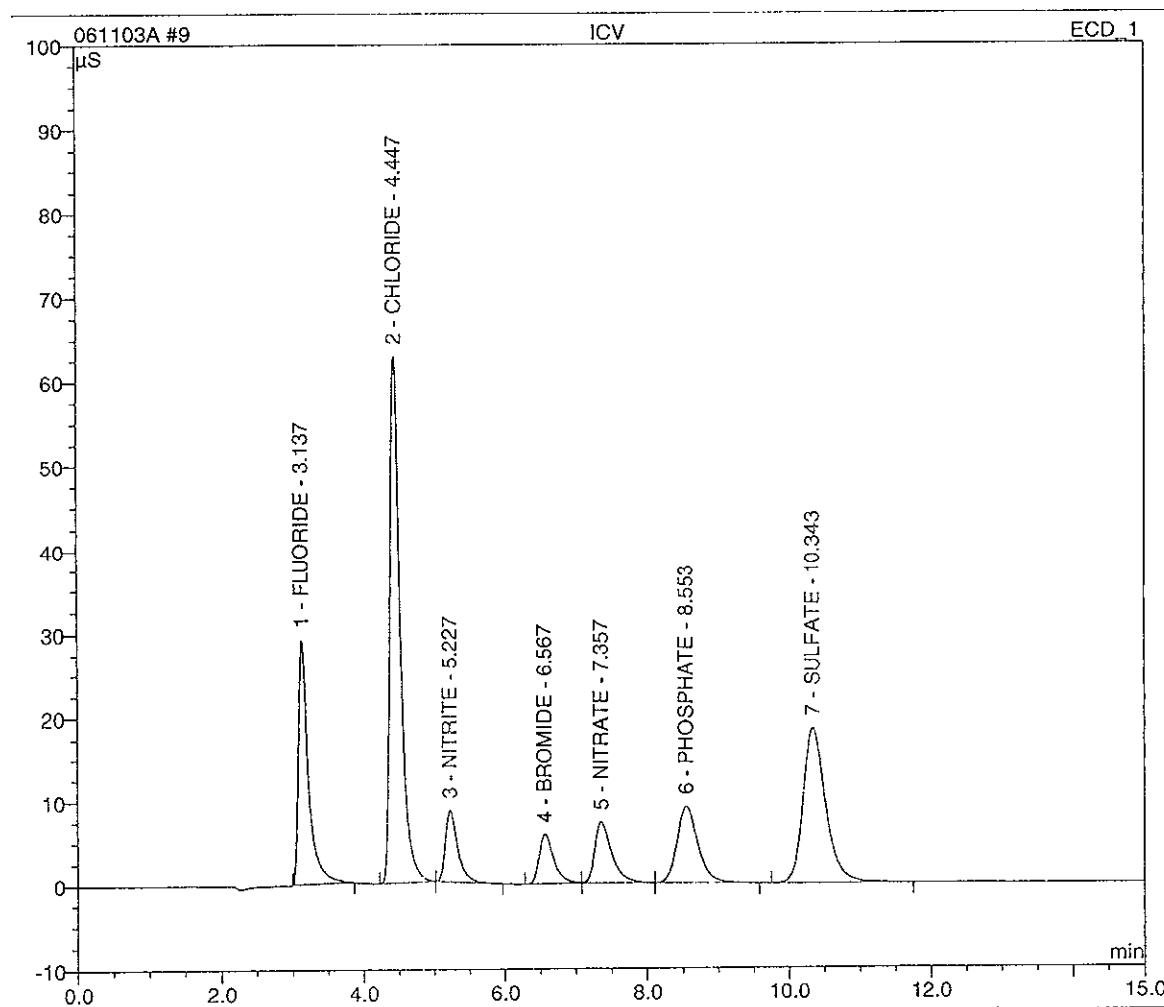
Sample Name:	BLANK	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	03.11.06 09:21	Run Time:	15.00

No.	Time min	Peak Name	Type	Area μS*min	Height μS	Amount ppm
		TOTAL:		0.00	0.00	0.00



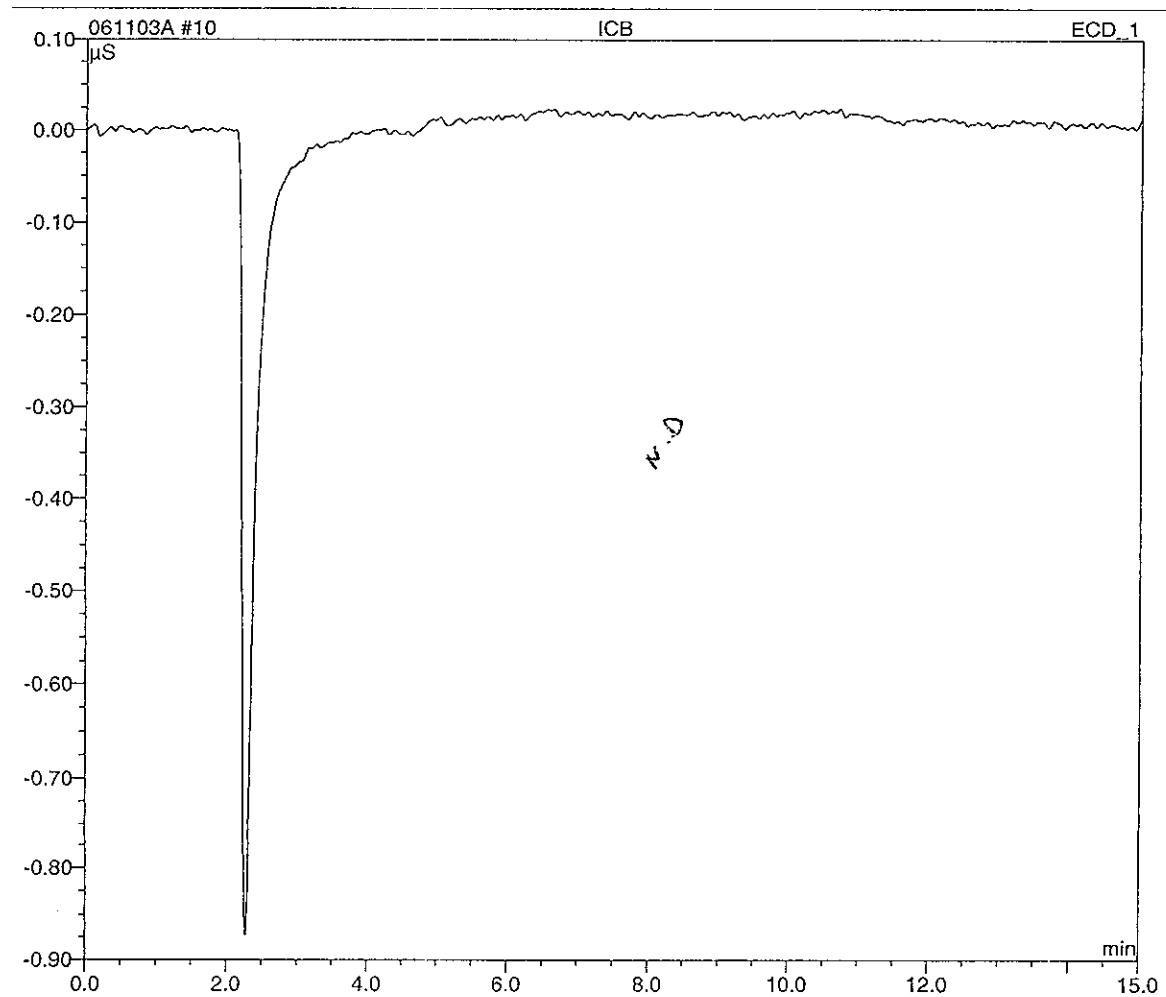
Sample Name:	ICV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	03.11.06 09:38	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.14	FLUORIDE	BMB	4.735	29.143	29.3978
2	4.45	CHLORIDE	BMB	10.516	62.766	74.7908
3	5.23	NITRITE	bMB	1.754	8.545	7.4052
4	6.57	BROMIDE	BMB	1.404	5.946	28.9491
5	7.36	NITRATE	bMB	2.005	7.300	7.2739
6	8.55	PHOSPHATE	BMB	3.121	9.161	29.0801
7	10.34	SULFATE	BMB	6.835	18.467	75.1615
TOTAL:				30.37	141.33	252.06



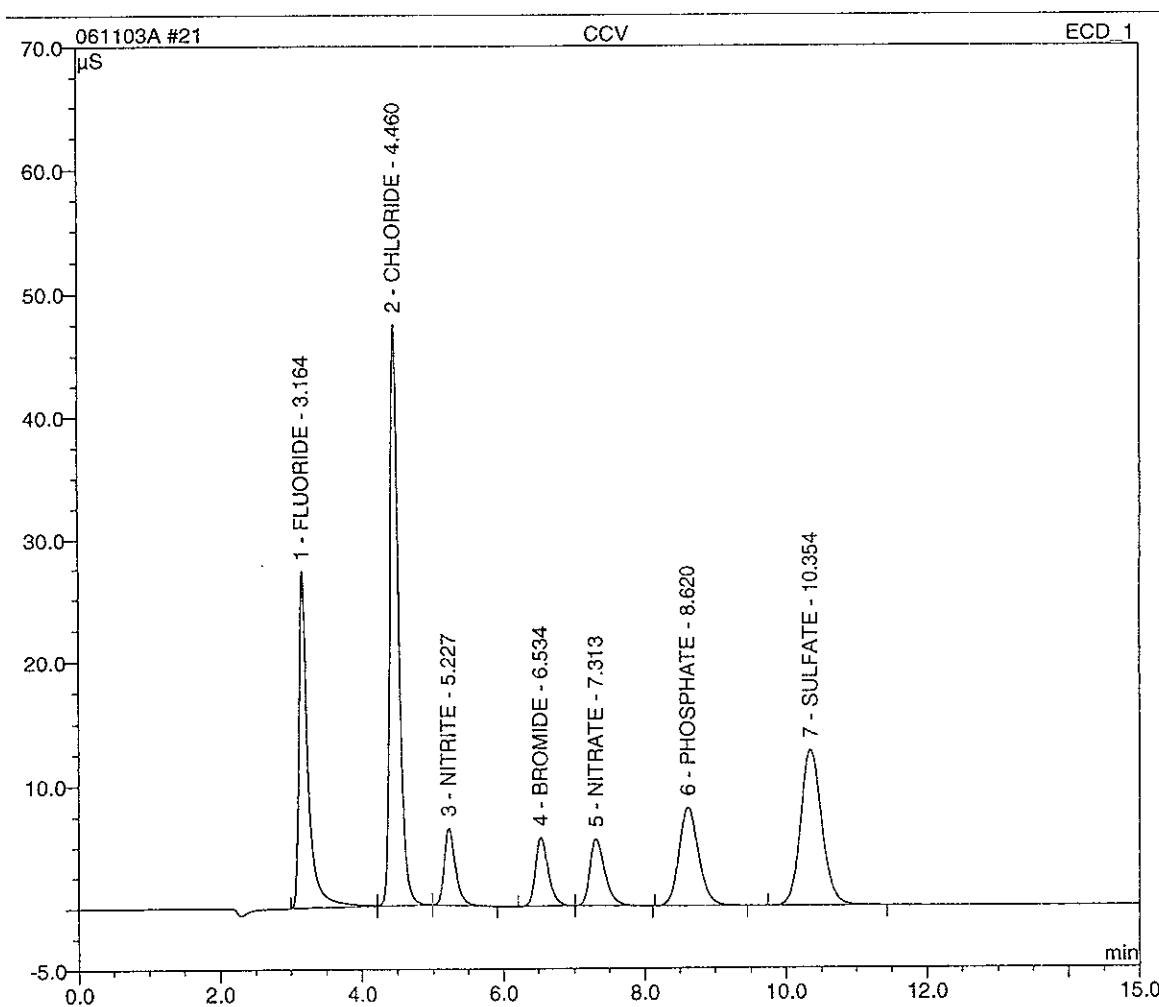
Sample Name:	ICB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	03.11.06 09:56	Run Time:	15.00

No.	Time min	Peak Name	Type	Area μS*min	Height μS	Amount ppm
		TOTAL:		0.00	0.00	0.00



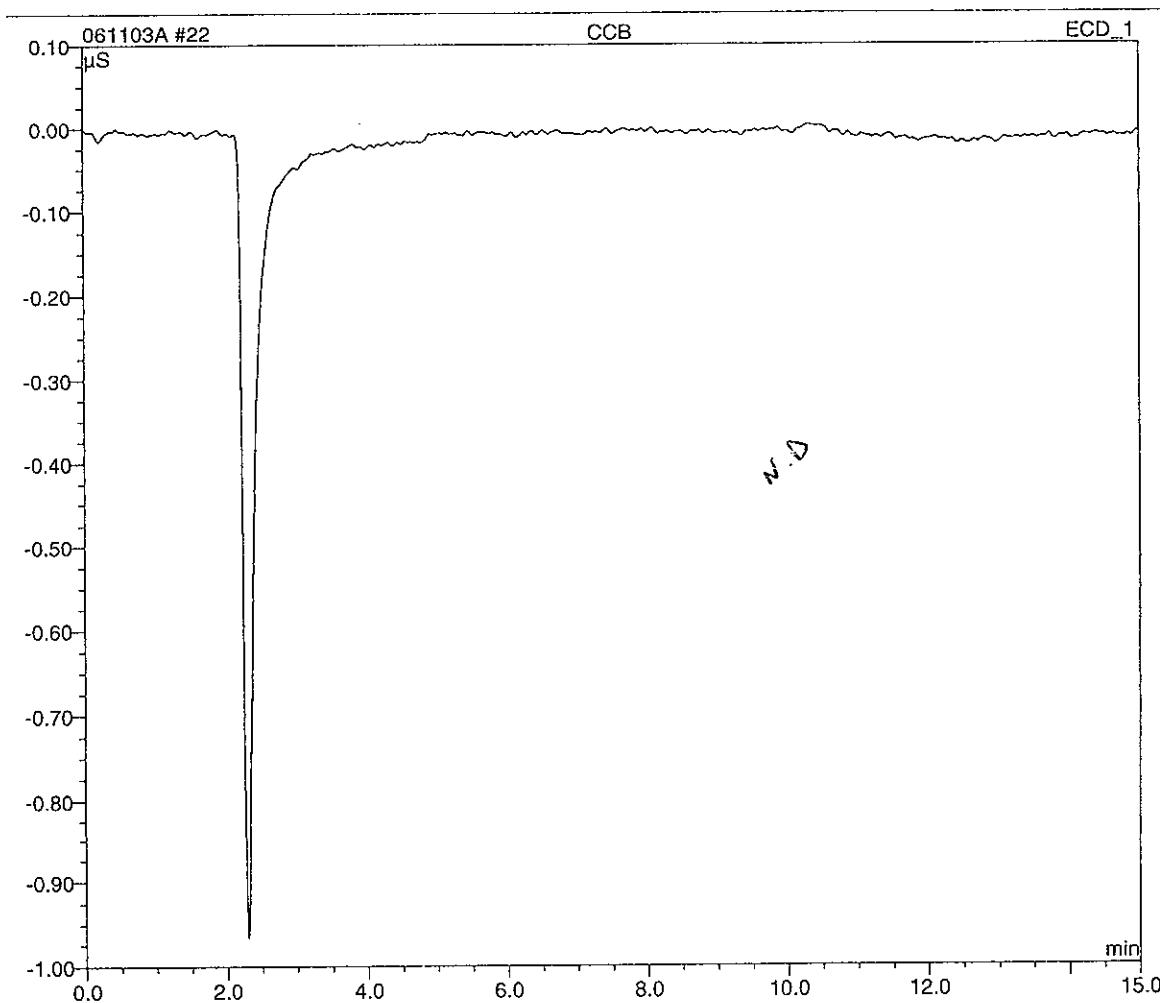
Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	03.11.06 13:14	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	%	Amount ppm
1	3.16	FLUORIDE	BM	4.034	27.304		25.0615
2	4.46	CHLORIDE	Mb	6.812	47.319		51.5603
3	5.23	NITRITE	bMB	1.161	6.316		4.9155
4	6.53	BROMIDE	BMb	1.189	5.646		24.5204
5	7.31	NITRATE	bMB	1.351	5.507		4.9182
6	8.62	PHOSPHATE	BMB	2.602	8.046		24.2620
7	10.35	SULFATE	BMB	4.390	12.699	101	50.2836
TOTAL:				21.54	112.84		185.52



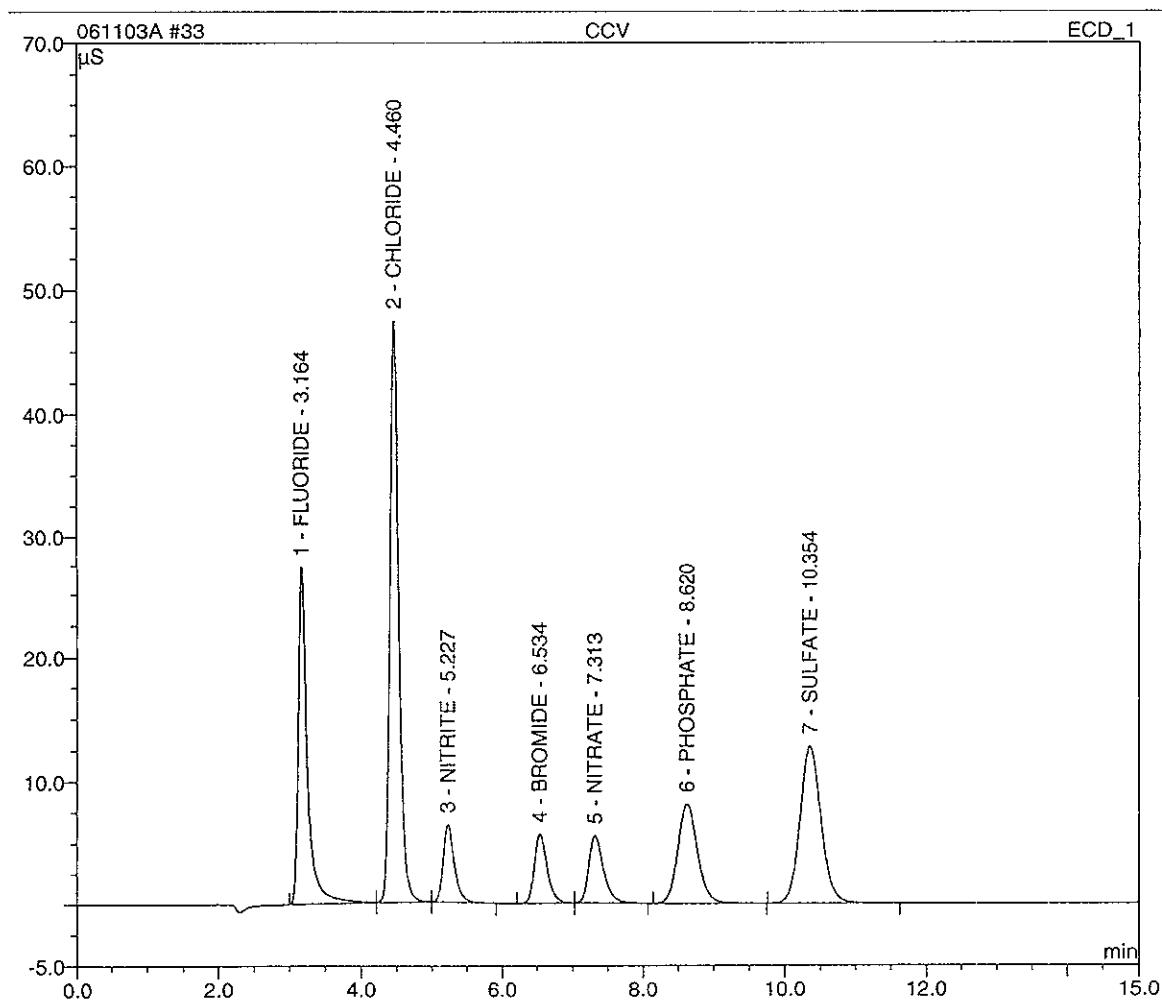
Sample Name:	CCB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A-PROGRAM	Operator:	ounis
Inj. Date/Time:	03.11.06 13:32	Run Time:	15.00

No.	Time min	Peak Name	Type	Area μS*min	Height μS	Amount ppm
		TOTAL:		0.00	0.00	0.00



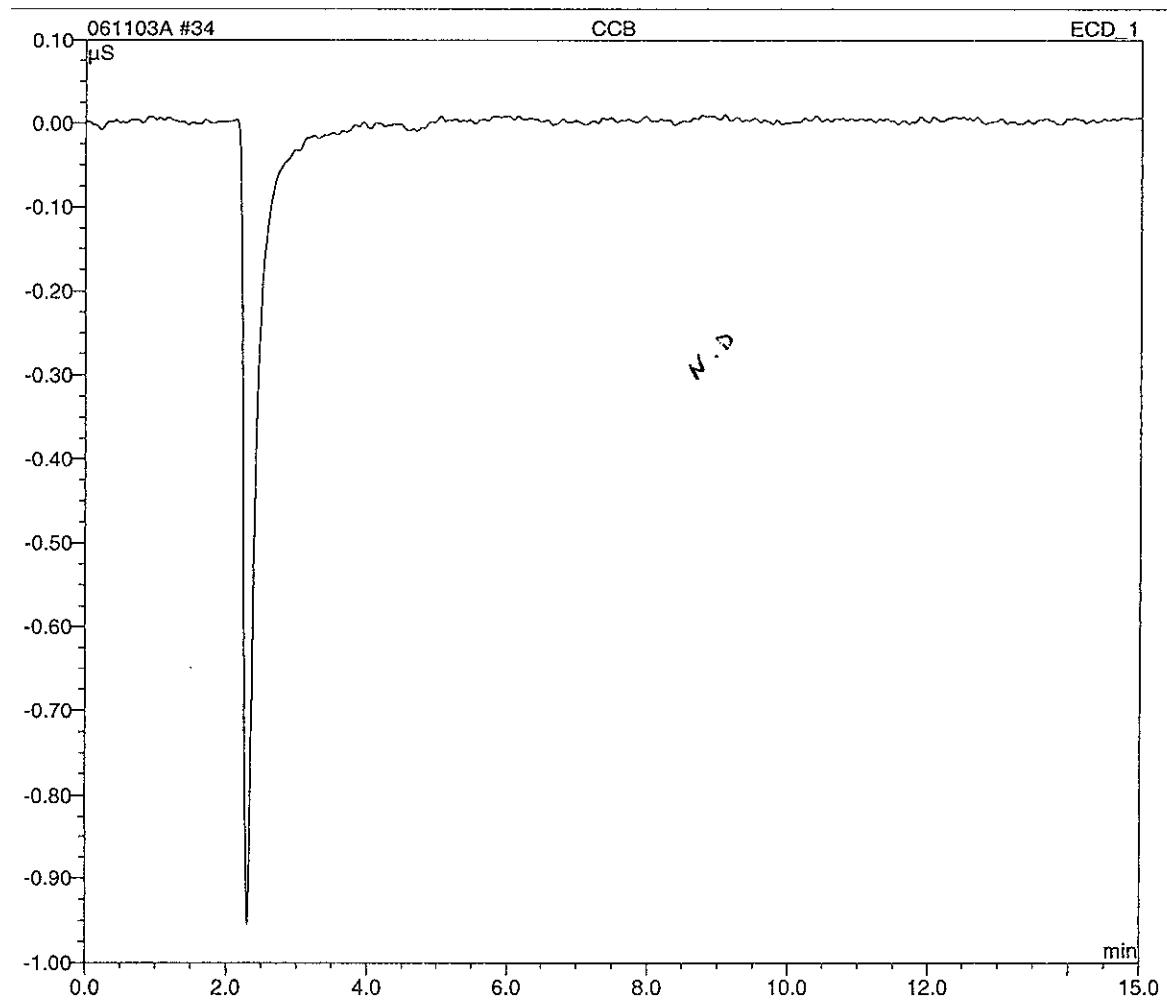
Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	03.11.06 16:44	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	/	Amount ppm
1	3.16	FLUORIDE	BM	4.047	27.393		25.1398
2	4.46	CHLORIDE	Mb	6.838	47.350		51.7368
3	5.23	NITRITE	bMB	1.165	6.315		4.9299
4	6.53	BROMIDE	BMb	1.198	5.656		24.7075
5	7.31	NITRATE	bMB	1.357	5.512		4.9370
6	8.62	PHOSPHATE	BMB	2.622	8.073		24.4431
7	10.35	SULFATE	BMB	4.415	12.746	101	50.5515
TOTAL:				21.64	113.05		186.45



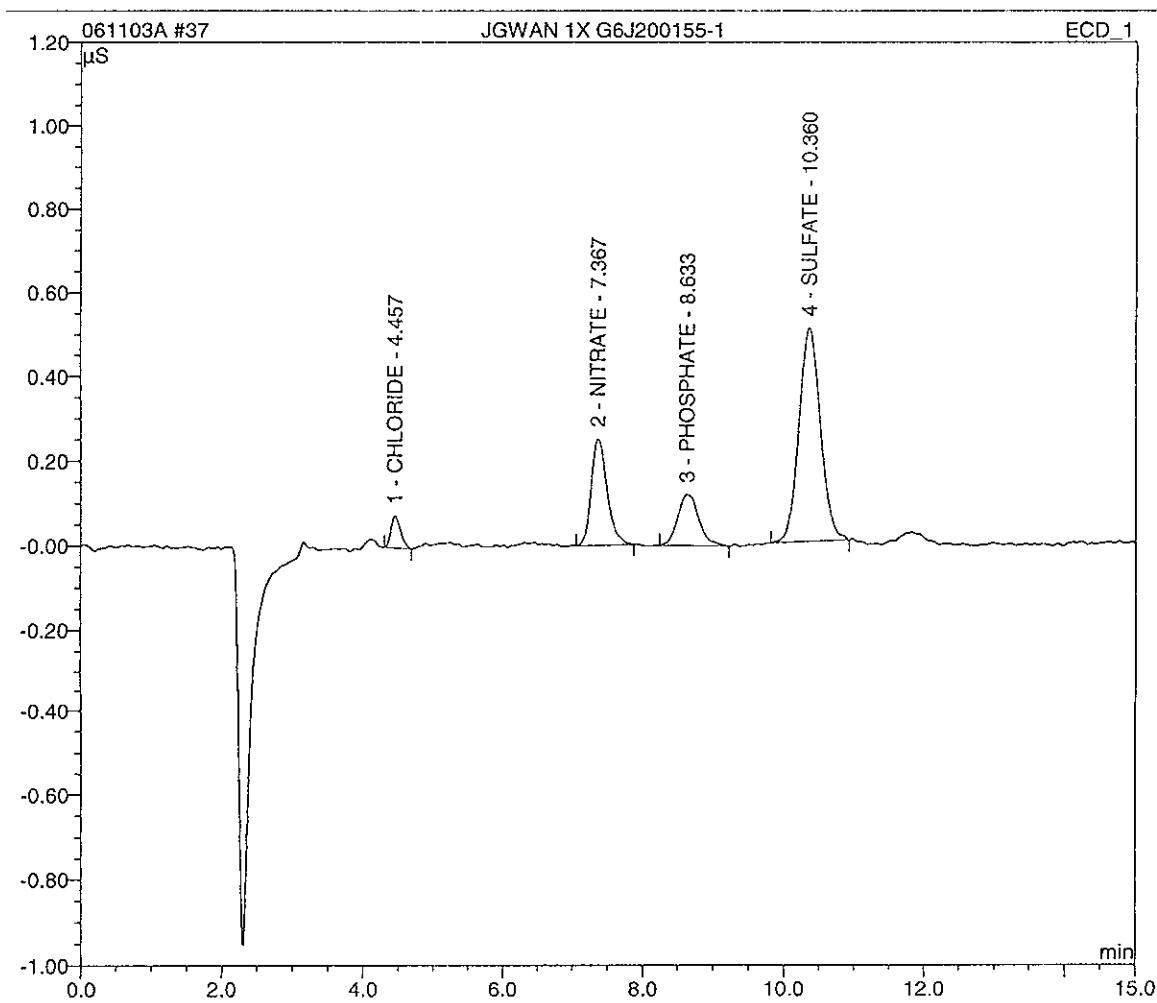
Sample Name:	CCB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator.:	ounis
Inj. Date/Time:	03.11.06 17:02	Run Time:	15.00

No.	Time min	Peak Name	Type	Area μS*min	Height μS	Amount ppm
		TOTAL:		0.00	0.00	0.00



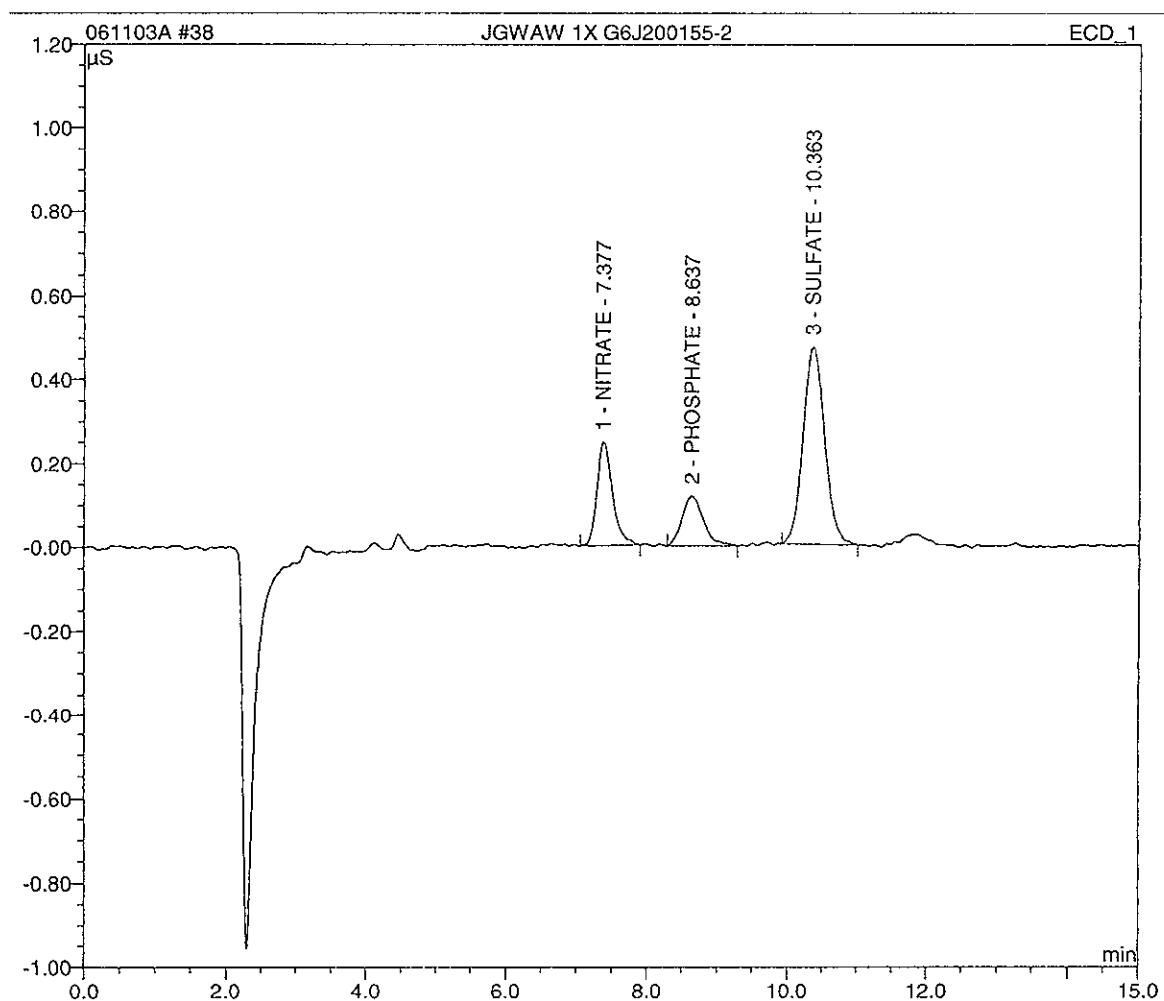
Sample Name:	JGWAN 1X G6J200155-1	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	03.11.06 17:55	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	4.46	CHLORIDE	BMB	0.012	0.075	0.1801
2	7.37	NITRATE	BMB	0.065	0.250	0.2836
3	8.63	PHOSPHATE	BMB	0.042	0.120	0.4834
4	10.36	SULFATE	BMB	0.178	0.505	2.2179
		TOTAL:		0.30	0.95	3.16



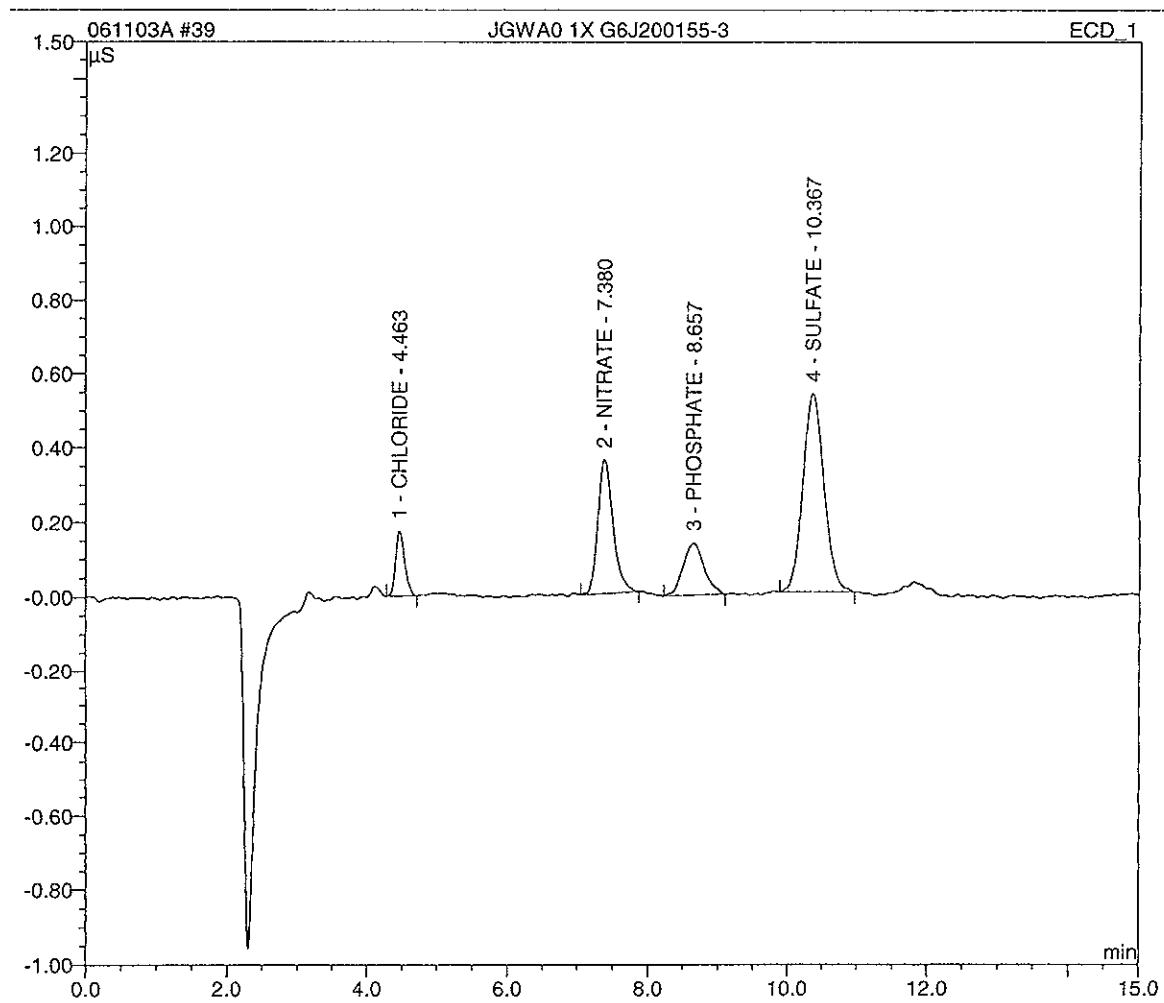
Sample Name:	JGWAW 1X G6J200155-2	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	03.11.06 18:12	Run Time:	15.00

No.	Time, min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	7.38	NITRATE	BMB	0.063	0.246	0.2779
2	8.64	PHOSPHATE	BMB	0.042	0.120	0.4879
3	10.36	SULFATE	BMB	0.168	0.470	2.0985
TOTAL:				0.27	0.84	2.86



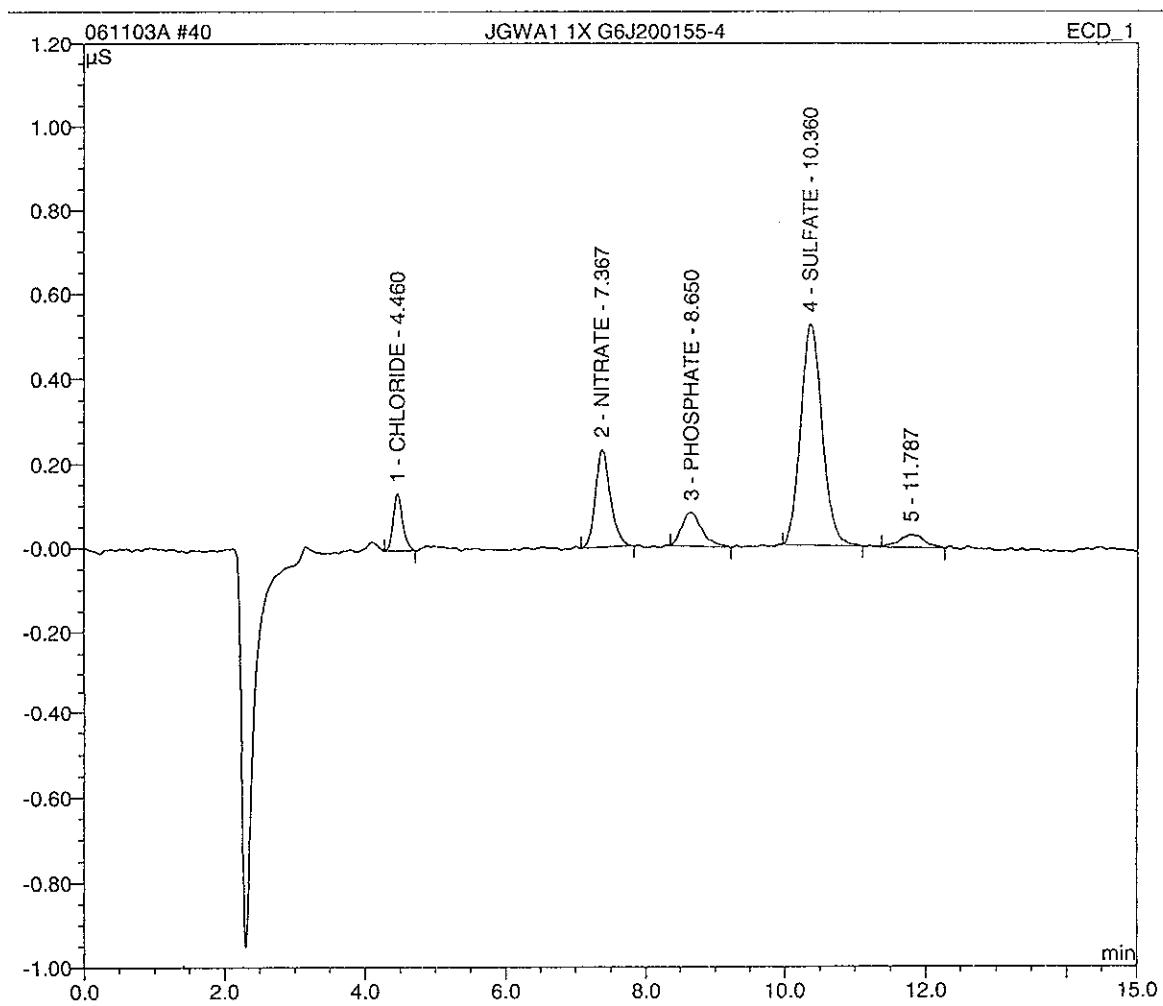
Sample Name:	JGWA0 1X G6J200155-3	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	03.11.06 18:30	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	4.46	CHLORIDE	BMB	0.026	0.173	0.3018
2	7.38	NITRATE	BMB	0.090	0.357	0.3730
3	8.66	PHOSPHATE	BMB	0.048	0.138	0.5400
4	10.37	SULFATE	BMB	0.188	0.533	2.3462
		TOTAL:		0.35	1.20	3.56



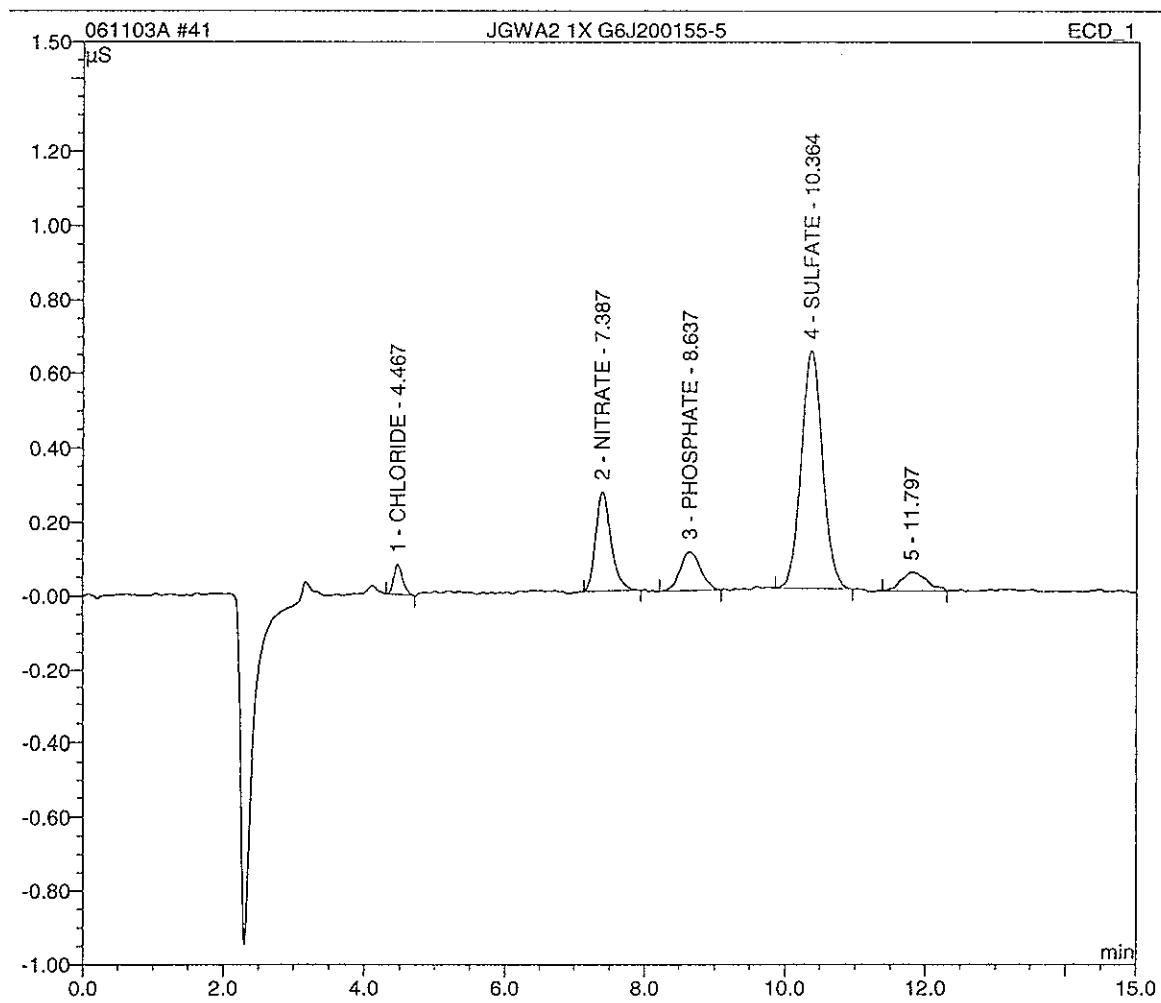
Sample Name:	JGWA1 1X G6J200155-4	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	03.11.06 18:47	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	4.46	CHLORIDE	BMB	0.021	0.135	0.2601
2	7.37	NITRATE	BMB	0.058	0.231	0.2577
3	8.65	PHOSPHATE	BMB	0.027	0.079	0.3461
4	10.36	SULFATE	BMB	0.185	0.522	2.3036
		TOTAL:		0.29	0.97	3.17



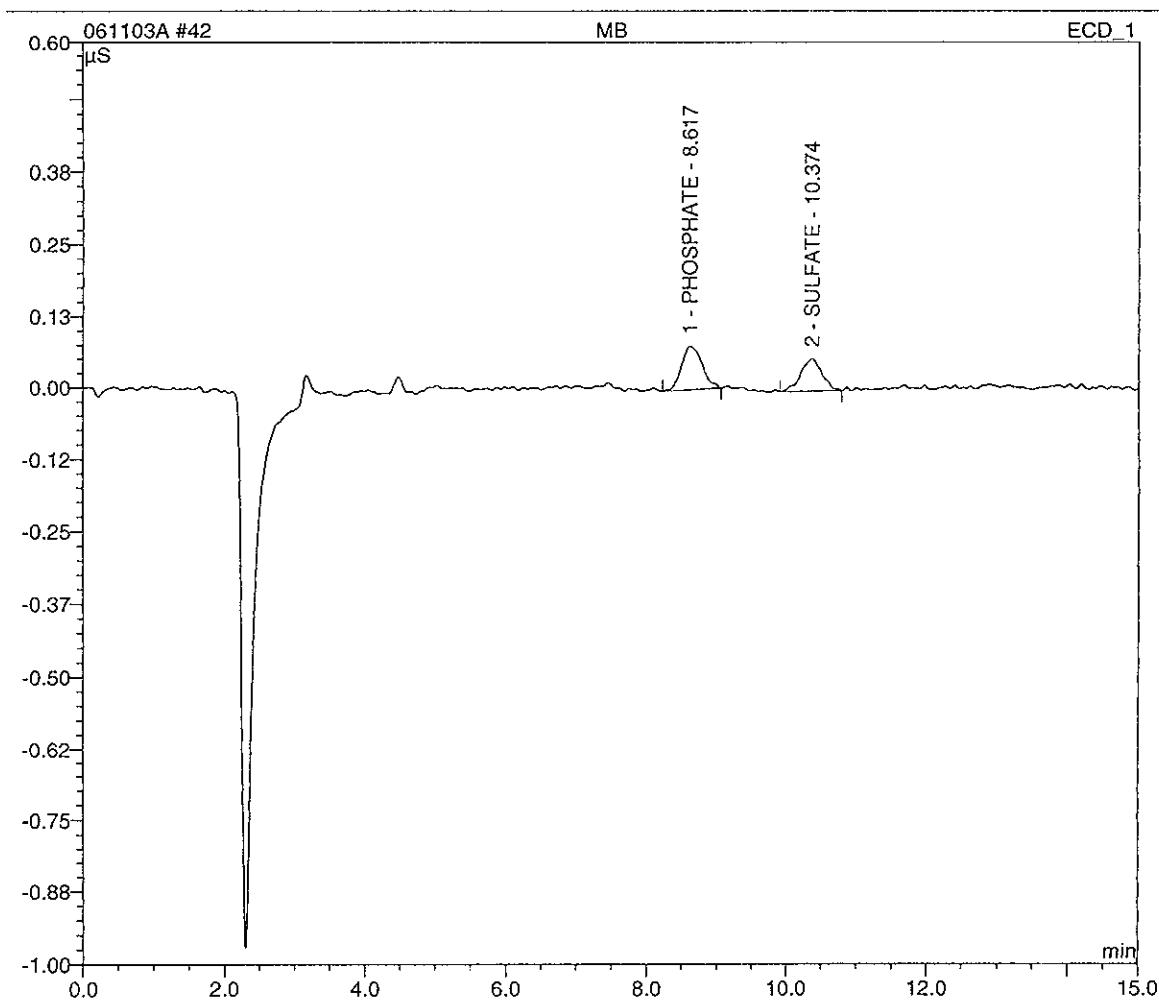
Sample Name:	JGWA2 1X G6J200155-5	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	03.11.06 19:05	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	4.47	CHLORIDE	BMB	0.012	0.081	0.1816
2	7.39	NITRATE	BMB	0.068	0.268	0.2960
3	8.64	PHOSPHATE	BMB	0.036	0.106	0.4271
4	10.36	SULFATE	BMB	0.227	0.642	2.8322
		TOTAL:		0.34	1.10	3.74



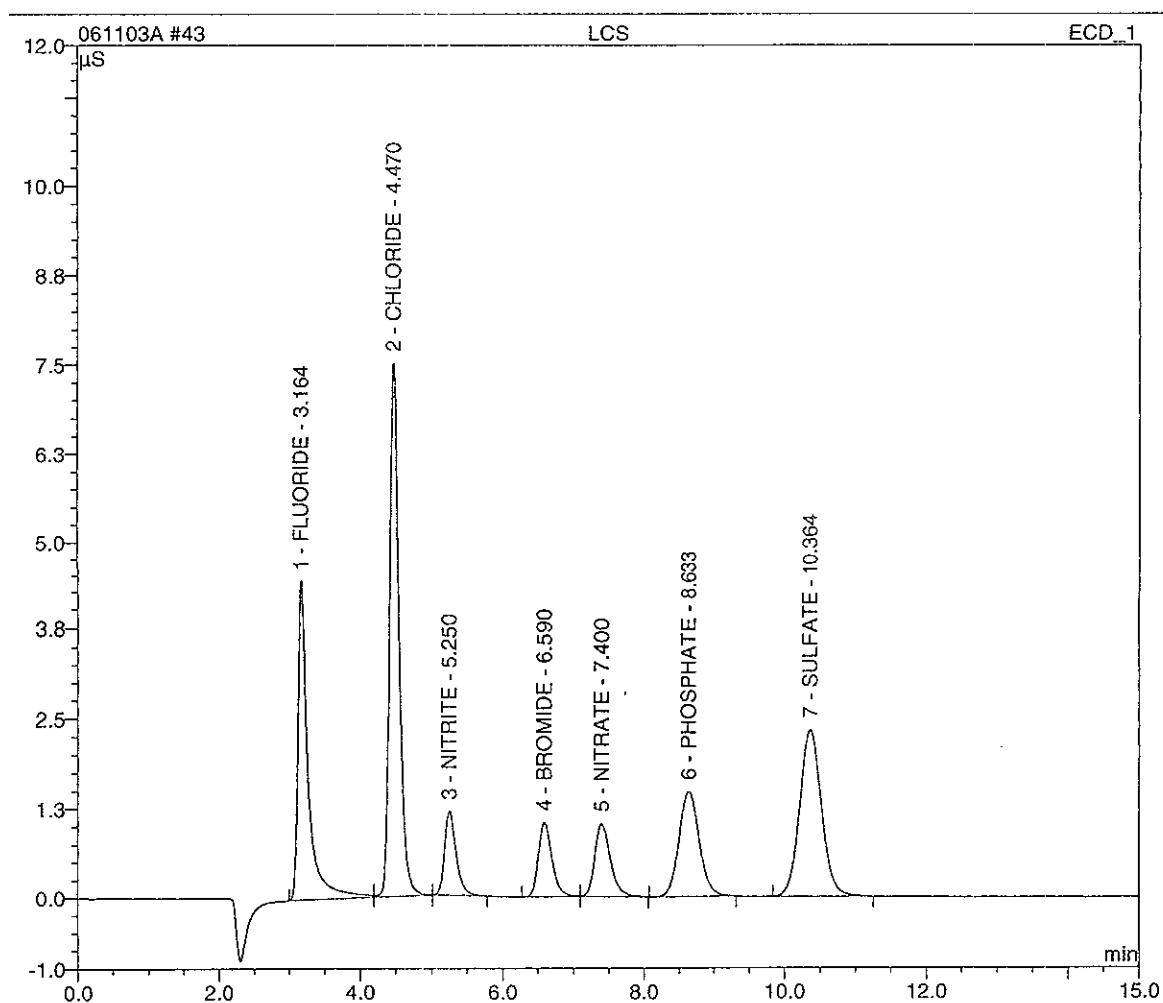
Sample Name:	MB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	03.11.06 19:22	Run-Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	8.62	PHOSPHATE	BMB	0.026	0.078	0.3359
2	10.37	SULFATE	BMB	0.020	0.057	0.2538
TOTAL:				0.05	0.13	0.59



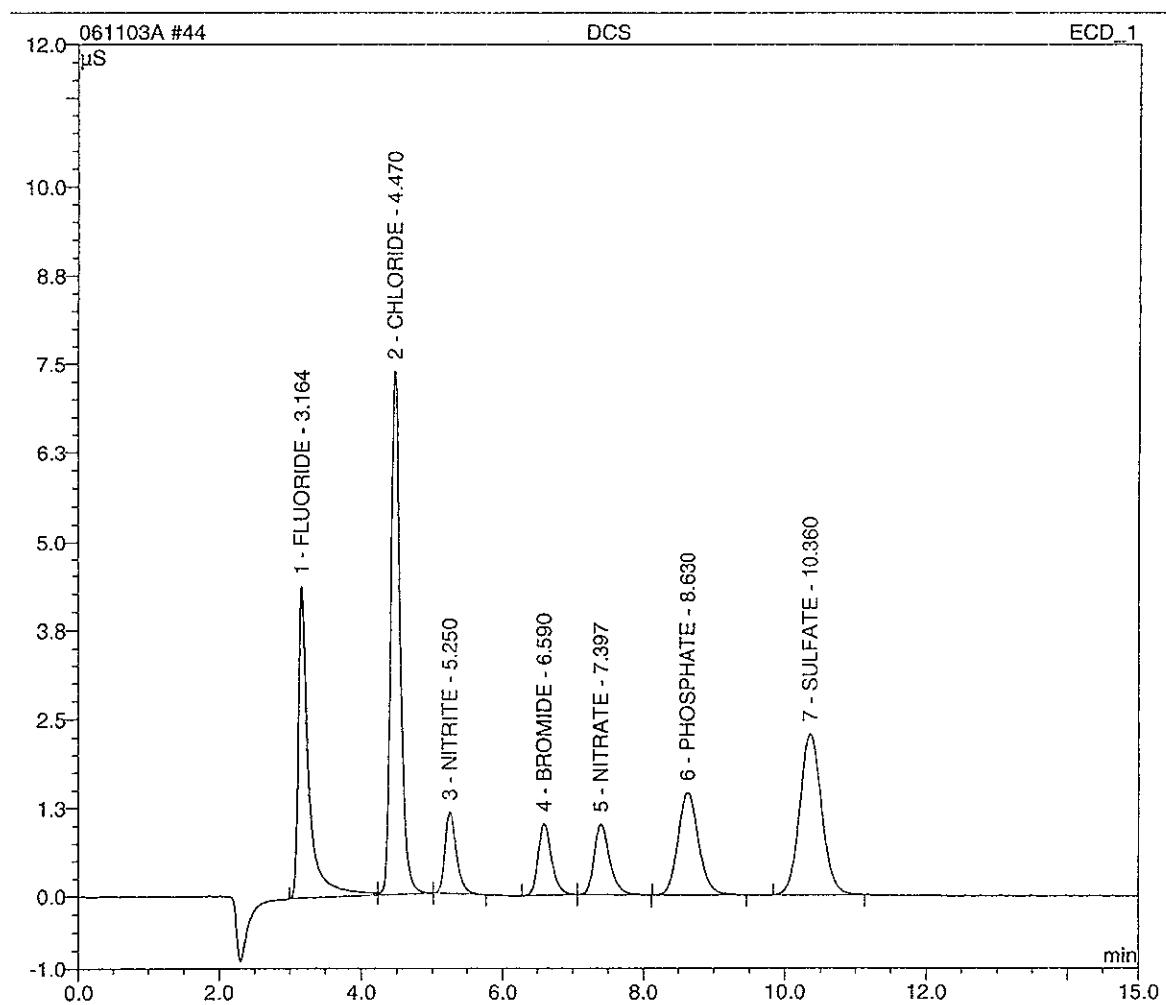
Sample Name:	LCS	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	03:11:06 19:40	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}^*\text{min}$	Height $\mu\text{S}$	%, Amount ppm
1	3.16	FLUORIDE	BM	0.758	4.457	4.7876
2	4.47	CHLORIDE	Mb	1.149	7.502	9.8818
3	5.25	NITRITE	bMB	0.224	1.177	0.9762
4	6.59	BROMIDE	BMb	0.229	1.038	4.7501
5	7.40	NITRATE	bMB	0.263	1.022	0.9963
6	8.63	PHOSPHATE	BMB	0.498	1.473	4.7179
7	10.36	SULFATE	BMB	0.834	2.323	10 <sup>-2</sup> 10.2363
TOTAL:				3.95	18.99	36.35



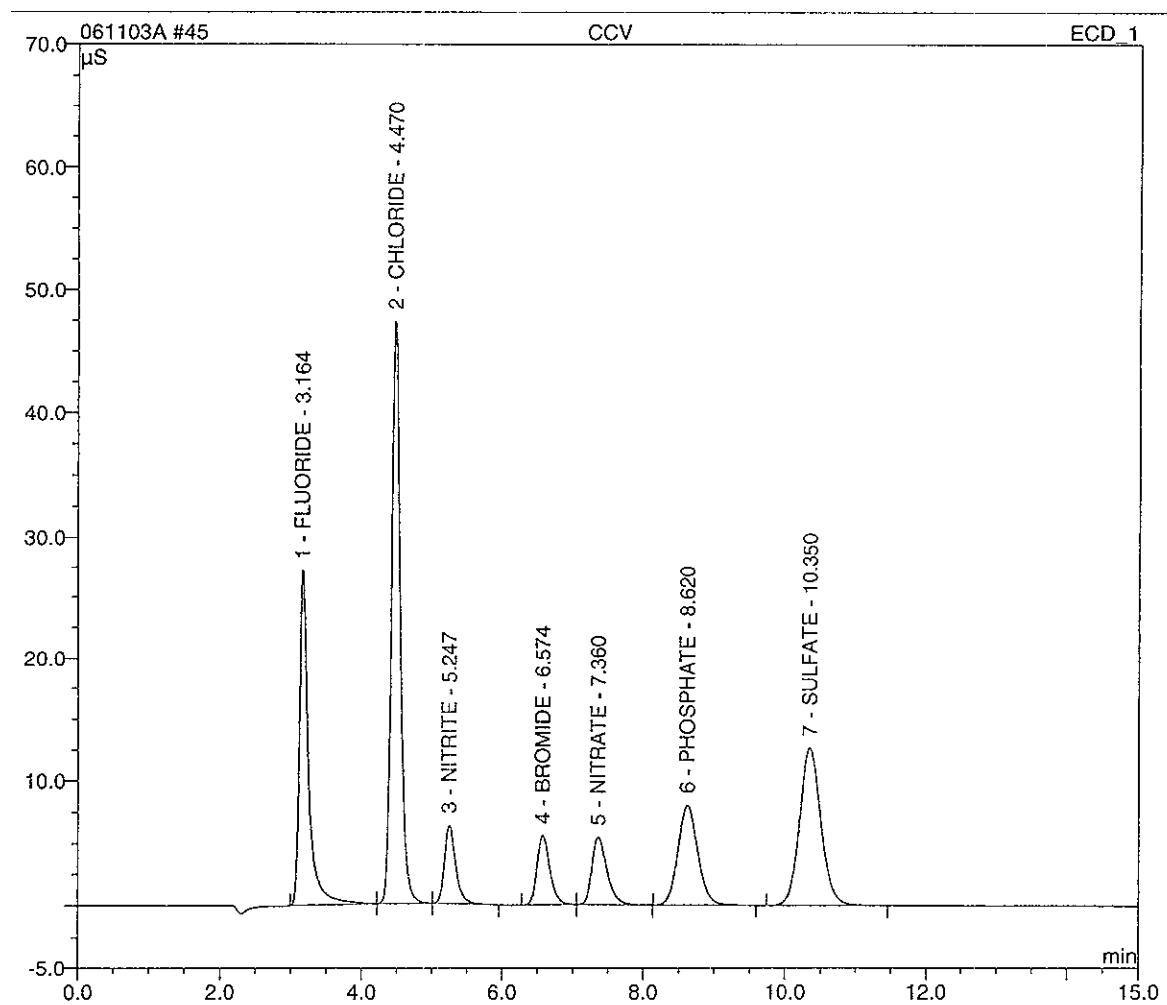
Sample Name:	DCS	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	03.11.06 19:57	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	%	Amount ppm
1	3.16	FLUORIDE	BM	0.749	4.380		4.7318
2	4.47	CHLORIDE	Mb	1.128	7.380		9.7073
3	5.25	NITRITE	bMB	0.218	1.158		0.9518
4	6.59	BROMIDE	BMB	0.226	1.023		4.6880
5	7.40	NITRATE	bMB	0.257	1.007		0.9769
6	8.63	PHOSPHATE	BMB	0.493	1.456		4.6708
7	10.36	SULFATE	BMB	0.817	2.287	103	10.0297
TOTAL:				3.89	18.69		35.76



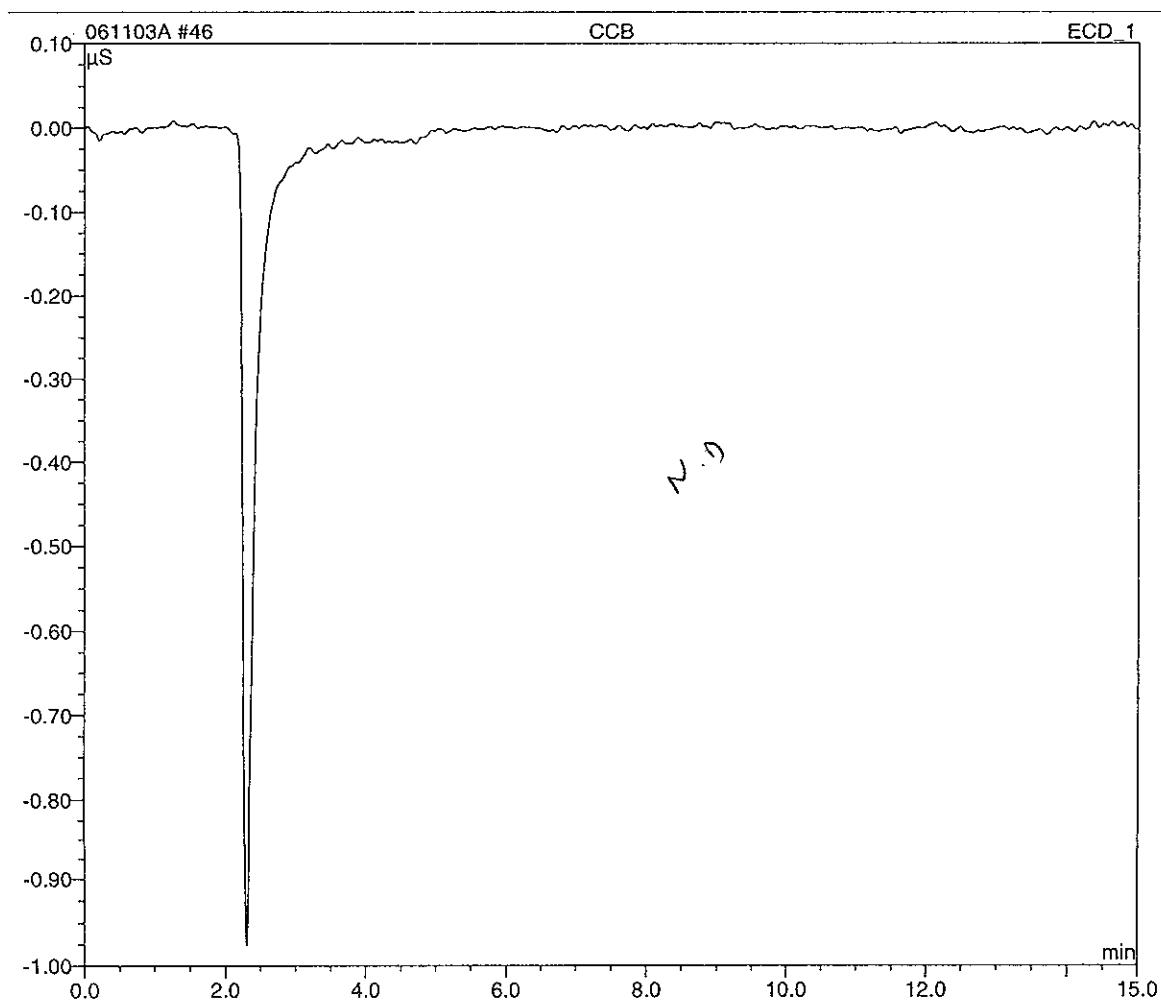
Sample Name:	CCV	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	03.11.06 20:15	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
1	3.16	FLUORIDE	BM	4.040	27.202	25.0952
2	4.47	CHLORIDE	Mb	6.847	47.246	51.7919
3	5.25	NITRITE	bMB	1.165	6.283	4.9312
4	6.57	BROMIDE	BMB	1.195	5.605	24.6481
5	7.36	NITRATE	bMB	1.354	5.448	4.9273
6	8.62	PHOSPHATE	BMB	2.614	8.022	24.3727
7	10.35	SULFATE	BMB	4.414	12.696	50.5366
TOTAL:				21.63	112.50	186.30



Sample Name:	CCB	Inj. Vol.:	100.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	AS14A PROGRAM	Operator:	ounis
Inj. Date/Time:	03.11.06 20:32	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount ppm
		TOTAL:		0.00	0.00	0.00



# AIR, PM-10 & TSP

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEETRun Date: 10/31/06  
Time: 10:47:40

STL Sacramento

## PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: JR Particulate Matter as PM10 "PM10 HiVol" (CFR50-J)  
 QC BATCH #: **6304299** INITIALS: **S** DATA ENTRY: **S**  
 PREP DATE: 10/24/06 14:57 PREP: **S** INITIALS: **S**  
 COMP DATE: 10/27/06 11:42 ANAL: **S** DATE: **10/27/06 10:31:06**  
 USER: VALMORES

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
✓JGV93-1-AA	G-6J200154-001	XX S 88 JR 01	Y-D	<u>10/26/06</u>	P-0778
✓JGV97-1-AA	G-6J200154-002	XX S 88 JR 01	Y-D	<u>10/26/06</u>	P-0779
✓JGV98-1-AA	G-6J200154-003	XX S 88 JR 01	Y-D	<u>10/26/06</u>	P-0780
✓JGWAA-1-AA	G-6J200154-004	XX S 88 JR 01	Y-D	<u>10/27/06</u>	P-0781
✓JGWAN-1-AA	G-6J200155-001	XX S 88 JR 01	Y-D	<u>10/26/06</u>	P-0773
✓JGWAW-1-AA	G-6J200155-002	XX S 88 JR 01	Y-D	<u>10/27/06</u>	P-0774
✓JGWA0-1-AA	G-6J200155-003	XX S 88 JR 01	Y-D	<u>10/27/06</u>	P-0775
✓JGWA1-1-AA	G-6J200155-004	XX S 88 JR 01	Y-D	<u>10/26/06</u>	P-0776
✓JGWA4-1-AA	G-6J200155-006	XX S 88 JR 01	Y-D	<u>10/26/06</u>	P-0777

## Control Limits

**PARTICULATE ANALYSIS**

**LEVEL 1 & 2 REVIEW CHECKLIST**

LAB NUMBERS: 66J200154-1-4 / 66J200155-1-4,6 Batch #: 6304299

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 10/31/06

ANALYST: S. Elmure

**LEVEL 1 ANALYSIS REVIEW**

1. Samples are in good condition.
2. Sample filter number matches the folder or petri ID number.
3. Desiccator temperature and % humidity criteria in control.
4. Balance calibration criteria met.
5. Beginning and ending calibration sample bracket weights are in calibration.
6. Samples reached stable weight.
7. Samples exceeded 5 consecutive final weighings.

	YES	NO	NA
1	✓		
2	✓		
3	✓		
4	✓		
5	✓		
6	✓		
7			✓

**LEVEL 1 DATA REVIEW**

1. Benchsheet is complete.
2. QAS or QAPP consulted and followed for client specifics.
3. Data entered in properly.
4. Copy of spreadsheet or logbook raw data entry attached to data package.
5. Analyst observations, HTV's, Anomalies properly documented and attached to data package.

Completed By & Date: S. Elmure 10/31/06

**LEVEL 2 REVIEW:**

1. Level 1 checklist complete and verified.
2. Deviations, Anomalies, Holding times checked and approved.
3. Reanalysis documented and chemist notified.
4. Client specific criteria met.
5. Data entry checked and released in Quantims.
6. Indication on benchsheet or spreadsheet on review and released (dated & signed).

✓		
✓		
		✓
✓		
✓		
✓		

Completed By & Date: S. Elmure 10/31/06

des: 1B

Comments:

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Severn Trent Laboratories  
AIR TOXICS GRAVIMETRIC ANALYSES

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)			
5 g wt	082406skv0832	5.0000	5.0004	4.9995	4.9996	4.9996	4.9996	-0.0008
JGC81 pmbo082406-771	082406skv0832	4.3467	4.3464	102406skv1457	1022606skv1621	102706skv1138		0.0135
JGC83 pmbo082406-772	082406skv0833	4.3427	4.3431	4.3579	4.3602	4.3599		
JGWAN pmbo082406-773	082406skv0833	4.3570	4.3567	101706skv1601	101806skv1335	101906skv1015		
JGWAW pmbo082406-774	082406skv0834	4.3471	4.3470	102406skv1457	102606skv1622	4.3561	4.3564	0.0133
JGWA0 pmbo082406-775	082406skv0834	4.3462	4.3465	102406skv1500	102606skv1623	102706skv1138		0.0079
				4.3611	4.3592	4.3525		0.0055
								0.0131
5 g wt	082406skv0834	5.0000	5.0003	5.0004	5.0004	5.0001		-0.0002
5 g wt	082406skv0834	5.0000	5.0003	4.9997	4.9995	4.9995		-0.0008

Severn Trent Laboratories  
AIR TOXICS GRAVIMETRIC ANALYSES

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)			
	5 g wt	5.0002 091906skv0910	5.0004 091906skv1548	4.9995 102406skv1501	4.9998 102606skv1626	4.9996 102706skv1140		-0.0008
JGWA1	pmbc091906- 776	4.3190 091906skv0911	4.3192 091906skv1548	4.3272 102406skv1501	4.3275 102606skv1626			0.0083
JGWA4	pmbc091906- 777	4.2217 091906skv0912	4.2218 091906skv1549	4.2197 102406skv1502	4.2192 102606skv1627			-0.0026
JGW93	pmbc091906- 778	4.2201 091906skv0912	4.2197 091906skv1549	4.2332 102406skv1502	4.2328 102606skv1627			0.0131
JGW97	pmbc091906- 779	4.2219 091906skv0913	4.2219 091906skv1549	4.2342 102406skv1502	4.2339 102606skv1627			0.0120
JGV98	pmbc091906- 780	4.2250 091906skv0913	4.2245 091906skv1549	4.2486 102406skv1503	4.2482 102606skv1628			0.0237
JGWAA	pmbc091906- 781	4.2242 091906skv0913	4.2239 091906skv1550	4.2395 102406skv1503	4.2383 102606skv1628	4.2378 102706skv1141		0.0139
	pmbc091906- 782	4.2244 091906skv0914	4.2244 091906skv1550					NC
	pmbc091906- 783	4.2271 091906skv0914	4.2266 091906skv1551					NC
	pmbc091906- 784	4.2232 091906skv0915	4.2227 091906skv1551					NC
	pmbc091906- 785	4.2267 091906skv0915	4.2263 091906skv1551					NC
	5 g wt	5.0002 091906skv0916	5.0002 091906skv1551	5.0001 102406skv1504	4.9996 102606skv1629	4.9996 102706skv1142		-0.0006

PDE115

Severn Trent Laboratories, Inc.  
Inorganics Batch Review  
QC Batch 6304299

Date 11/09/2006  
Time 15:33:36

Method Code:JR Particulate Matter as PM10 "PM10 HiVol" (CFR50-J)

Analyst:Steve Valmores	Work Order	Result	Units	LDL/Dil	Prep. T0/24-T0/26/06	- Anal. T0/24-T0/26/06	Total Solids	PSRL N	R/R	Rounded Result	Output LDL	Dil.
JGV93-1-AA	0.0131	0.0131	g	0.0001	10/24-10/26/06	.00	N	R	0.0131	0.0001	0.0001	1.00
JGV97-1-AA	0.0120	0.0120	g	0.0001	10/24-10/26/06	.00	N	R	0.0120	0.0001	0.0001	1.00
JGV98-1-AA	0.0237	0.0237	g	0.0001	10/24-10/26/06	.00	N	R	0.0237	0.0001	0.0001	1.00
JGWAA-1-AA	0.0139	0.0139	g	0.0001	10/24-10/27/06	.00	N	R	0.0139	0.0001	0.0001	1.00
JGWAN-1-AA	0.0079	0.0079	g	0.0001	10/24-10/26/06	.00	N	R	0.0079	0.0001	0.0001	1.00
JGWAW-1-AA	0.0055	0.0055	g	0.0001	10/24-10/27/06	.00	N	R	0.0055	0.0001	0.0001	1.00
JGWA0-1-AA	0.0131	0.0131	g	0.0001	10/24-10/27/06	.00	N	R	0.0131	0.0001	0.0001	1.00
JGWA1-1-AA	0.0083	0.0083	g	0.0001	10/24-10/26/06	.00	N	R	0.0083	0.0001	0.0001	1.00
JGWA4-1-AA	ND	ND	g	0.0001	10/24-10/26/06	.00	N	R	ND	0.0001	0.0001	1.00

Notes:

TEST	TOTAL #	SAMPLE #	PRODUCTION QC #	TOTALS MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

RQC050

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEET

Run Date: 10/31/06

Time: 10:48:38

STL Sacramento

## PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>QC</u>	<u>RE-RUN MATRIX</u>	<u>RE-RUN OTHER</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: AO Particulates in Air, Suspended "TSP Hivol" (APP B)  
 QC BATCH #: 6304297 INITIALS: SV DATA ENTRY:  
 PREP DATE: 10/24/06 14:53 PREP SV INITIALS: SV  
 COMP DATE: 10/27/06 11:36 ANAL SV DATE 10/31/06  
 USER: VALMORES

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
JGWAD-1-AA	G-6J200154-005	XX S 88 AO 3W	Y-D	<u>10/27/06</u>	000546
JGWA2-1-AA	G-6J200155-005	XX S 88 AO 3W	Y-D	<u>↓</u>	000545

## Control Limits

**PARTICULATE ANALYSIS**

**LEVEL 1 & 2 REVIEW CHECKLIST**

LAB NUMBERS: G6J200154 - 5/G6J200155<sup>s</sup> Batch #: G304297

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 10/31/02

ANALYST: J. Vilimovs

**LEVEL 1 ANALYSIS REVIEW**

1. Samples are in good condition.
2. Sample filter number matches the folder or petri ID number.
3. Desiccator temperature and % humidity criteria in control.
4. Balance calibration criteria met.
5. Beginning and ending calibration sample bracket weights are in calibration.
6. Samples reached stable weight.
7. Samples exceeded 5 consecutive final weighings.

YES	NO	NA
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**LEVEL 1 DATA REVIEW**

1. Benchsheet is complete.
2. QAS or QAPP consulted and followed for client specifics.
3. Data entered in properly.
4. Copy of spreadsheet or logbook raw data entry attached to data package.
5. Analyst observations, HTV's, Anomalies properly documented and attached to data package.

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Completed By & Date: SV 10/31/02

**LEVEL 2 REVIEW:**

1. Level 1 checklist complete and verified.
2. Deviations, Anomalies, Holding times checked and approved.
3. Reanalysis documented and chemist notified.
4. Client specific criteria met.
5. Data entry checked and released in Quantims.
6. Indication on benchsheet or spreadsheet on review and released (dated & signed).

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Completed By & Date: SV 11/19/02

Comments: des 1/28/03 1B

Severn Trent Laboratories  
AIR TOXICS GRAVIMETRIC ANALYSES

WEST SACRAMENTO

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)			
5 g wt	062606skv1653	5.0004	5.0002	5.0000	4.9996	4.9995		-0.0007
JDE36	bctsp062606-536	4.2005	4.2000	4.2916	4.2917			0.0917
	bctsp062606-537	062606skv1654	062706skv1315	090506sd1720	090706skv1051			NC
	bctsp062606-538	062606skv1655	062706skv1316					NC
JED5G	bctsp062606-539	062606skv1655	062706skv1316	092106skv1608	092506skv1035	092506skv1646		0.1027
JE3FP	bctsp062606-540	062606skv1655	062706skv1317	092906skv1106	100106skv1307	100206skv1005		0.0717
JFMGG	bctsp062606-541	062606skv1655	062706skv1318	101006skv0949	101006skv1643	101106skv1030	101106skv1713	101206skv0937
JFMEV	bctsp062606-542	062606skv1656	062706skv1318	101006skv0951	101006skv1644			0.0851
JFME2	bctsp062606-543	062606skv1656	062706skv1319	101006skv0952	101006skv1646	101106skv1031		-0.0057
JGC85	bctsp062606-544	062606skv1657	062706skv1321	101706skv1604	101806skv1339			0.0305
JGWA2	bctsp062606-545	062606skv1657	062706skv1321	102406skv1454	102606skv1618	102706skv1135		0.0251
	5 g wt	062606skv1658	062706skv1321	072806sd1404	073106sd1403	080206sd1123	101106skv1726	101206skv0938
	5 g wt	062606skv1658	062706skv1321	090506sd1721	090706skv1052			0.0004
	5 g wt	062606skv1658	062706skv1321	092106skv1608	092506skv1036	092506skv1646		0.0000
	5 g wt	062606skv1658	062706skv1321	092906skv1107	100106skv1307	100206skv1006		0.0004
	5 g wt	062606skv1658	062706skv1321	101006skv0953	101006skv1647	101106skv1032		-0.0002
	5 g wt	062606skv1658	062706skv1321	101706skv1604	101806skv1340			0.0003

Severn Trent Laboratories  
AIR TOXICS GRAVIMETRIC ANALYSES

WEST SACRAMENTO

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)			
JGWAD	bctsp062606-546	4.2256	4.2258	4.2725	4.2686	4.2690		0.0432
	bctsp062606-547	062606skv1658	062706skv1322	102406sskv1454	102606skv1619	102706skv1136		NC
H94KR	bctsp062606-548	4.2164	4.2161					-0.0021
H94KQ	bctsp062606-549	062606skv1659	062706skv1322	072806sd1404	073106sd1406	080206sd1124		0.0387
	bctsp062606-550	062606skv1659	062706skv1323	072806sd1405	073106sd1407	080206sd1125		NC
		4.2372	4.2368	4.2347	4.2348	4.2347		
		4.2046	4.2041	4.2441	4.2433	4.2428		
		4.2070	4.2066					
		5 g	5.0004	5.0000	5.0002	5.0005	5.0003	0.0003
	wt	062606skv1700	062706skv1324	072806sd1405	073106sd1409	080206sd1126		
	5 g	5.0004	5.0000	4.9997	4.9997	4.9998		-0.0002
	wt	062606skv1700	062706skv1324	102406sskv1455	102606skv1620	102706skv1136		

PDE115

Severn Trent Laboratories, Inc.  
 Inorganics Batch Review  
 QC Batch 6304297

Date 11/09/2006  
 Time 15:33:58

Method Code:AO Particulates in Air, Suspended "TSP HiVol" (APP B)

Analyst:Steve Valmores

Work Order	Result	Units	IDL/Dil	Prep.- Anal.	Total Solids	PSRL N	Flag R/R	Rounded Result	Output LDI	Dil.
JGWA2-1-AA	0.0432	g	0.0001	10/24-10/27/06	.00	N	R	0.0432	0.0001	1.00
JGWA2-1-AA	0.0251	g	0.0001	10/24-10/27/06	.00	N	R	0.0251	0.0001	1.00

Notes:

TEST	TOTAL #	SAMPLE #	PRODUCTION QC #	TOTALS MATRIX #	OTHER #	MISC #	HOURS .0
	0	0	0	0	0	0	0